

Read Aloud

1.	Programming is the art of expressing solutions to problems so that a computer can execute those solutions. Much of the effort in programming is spent finding and refining solutions. Often, a problem is only fully understood through the process of programming a solution for it.
2.	The definition of a disaster varies by organization. Various entities have different "pain thresholds" that define when an incident becomes a disaster. A bank, for example, will have different criteria than a poison-control hotline. With this fact in mind, any organization should begin the process of implementing "first alert" and response teams after it has completed a business impact analysis.
3.	Margaret Simons explains the changes taking place in the Australian media. She analyses audiences, our major media organizations, the role of government - and the implications of all these for our society and our democracy. Her examination leads her to the conclusion that the challenges facing the content providers in the modern world are part of a broader striving, a very old struggle - we might call it the search for meaning.
4.	Today's technological market is dominated by two contrasting business models: the generative and the nongenerative models-the PCs. Windows and Macs of this world - allow third parties to build upon and share through them. The non-generative models is more restricted; appliances might work well, but the only entity that can change the way they operate is the vendor.
5.	Never has the world of journalism been so explosive, so global, and so competitive. Forget hourly news flashes; we live in a world of 24-hour breaking news with radio and TV stations and Internet sites updating stories by the minute and newspapers adjusting to stay fresh, in-depth, and relevant.
6.	Karl Marx is arguably the most famous political philosopher of all time, but he was also one of the great foreign correspondents of the nineteenth century. During his eleven years writing for the New York Tribune - their collaboration began in 1852 - Marx tackled an abundance of topics, from issues of class and the state of world affairs.
7.	When buying a house, for example, it's best to let our unconscious mull over the many variables. But when we're picking stocks and shares, intuition often leads us astray. The trick is to determine when to lean on which part of the brain, and to do this, we need think harder - and smarter-about how we think.
8.	The human animal's status as the only clever tool-user who can talk about our feelings is crumbling. Prairie dogs can make up words for new animals. Crows are born with the ability to make tools. Elephants recognize and stroke the bones of a lost family member. As biologists delve into these subjects, they're demonstrating that we're not nearly as unique as we once thought. It's the perfect time, scientifically speaking, to reassess our place in the animal kingdom.
9.	Market research is a vital part of the planning of any business. However, experienced you or your staff may be in a particular field, if you are thinking of introducing a service to a new area, it is important to find out what the local population thinks about it first.
10.	Not a lot is known about how the transportation of goods by water first began. Large cargo boats were being used in some parts of the world up to five thousand years ago. However, sea trade became more widespread when large sailing boats travelled between ports, carrying spices, perfumes and objects made by hand.

11.	When the young artist was asked about his drawing, he explained that he had started by taking a photograph of himself sitting by a window at home. He then drew his face from the photograph and replaced the buildings which were outside the window with trees. This gave the picture a softer, more artistic background.
12.	Humans need to use energy in order to exist. So it is unsurprising that the way people have been producing energy is largely responsible for current environmental problems. Pollution comes in many forms, but those that are most concerning, because of their impact on health, resulting from the combustion of fuels in power stations and cars.
13.	Clearly, times are changing and while many people are saving for their retirement, many more still need to do so. Most countries have a range of pension schemes that are designed to provide individuals with an income once they stop working. People need to take advantage of these if they are to have sufficient money throughout their retirement years.
14.	According to recent research, sunshine and warm weather have a positive effect on our moods. The British Journal of Psychology has published a report in which it claims that anxiety levels fall when temperatures rise, while increased exposure to sunshine makes us think more positively about our lives.
15.	Statistics reflect vital information about the economy, the well-being of the population, and the environment. Society relies on statistics being visible, accessible and robust, and on statistically literate people making the best use of the information to determine future action. Statistical literacy, then, is the ability to accurately understand, interpret and evaluate the data that inform these issues.
16.	Housing fulfils the basic needs that people have for security, privacy and shelter. While the adequacy of housing is an important component of individual well-being, housing also has great impact on the nation's economy, with its influence on investment levels, interest rates, building activity and employment.
17.	Being physically active benefits people's health significantly, including reducing the risk of some chronic conditions, helping to control weight, and improving mental health. In recent decades, there has been a decline in physical activity because more people work in offices rather than in manual jobs.
18.	Students who wish to take a break from their studies will need to put in an application for Leave of Absence. If your application is successful, you will be notified via email. At the end of your Leave of Absence, you must re-enrol at Student Services and in the subjects you intend to study.
19.	There are a number of tests available which can suggest if a person is telling the truth, but knowing which ones are accurate is not easy. A newly created test is claimed to be the most accurate yet in lie detection. However, questions have been raised about its accuracy and ethics.
20.	A student exchange program complements formal education, while promoting tolerance, maturity and independence - all highly sought-after qualities in today's competitive job market. Living in the host country, not as a tourist or guest but as a member of the community, is what makes the experience both challenging and rewarding.
21.	Tidal energy, also known as tidal power, is a renewable source of energy and a form of hydropower used to generate electricity from the energy of the tides. Though not currently widely utilised, due to high costs and limited availability, it can be called the energy resource of the future given the current rate of depletion of energy resources.

22.	Certain types of methodology are more suitable for some research projects than others. For example, the use of questionnaires and surveys is more suitable for quantitative research whereas interviews and focus groups are more often used for qualitative research purposes.
23.	Most countries are affected by labour migration. In many rural places, the traditional extended family has been undermined by the need for family members to migrate to towns as an economic necessity. Migration, therefore, presents a major challenge everywhere to social and economic policy.
24.	One of the major factors influencing future home design will be the probable change in climate, with hotter summers, colder winters, and the possibility of floods. Consequently, houses will be built with better insulation and will also need ways of keeping cool in hot weather, whether that's air conditioning or more shading of windows.
25.	Until fairly recent times, the origin of birds was one of evolution's great mysteries. This is no longer the case. Fossil evidence from China now conclusively proves that there is an evolutionary link between birds and several types of extinct prehistoric reptiles which lived millions of years ago, or in other words, dinosaurs.
26.	Group work, is valuable because of the opportunities it provides for students to develop collaboration and communication skills. As an assessment task, it has the potential to pose difficulties in relation to appropriate acknowledgement of authorship of individual group members. These difficulties can be minimized by ensuring that the task is well designed, with the roles of individuals effectively identified.
27.	The Italian alphabet has fewer letters in comparison with the English alphabet. Italian does not use the letters J, K, W, X or Y - except in borrowed words. However, young Italians are increasingly using the letter K in words that.
28.	Summerhill School was regarded with considerable suspicion by the educational establishment. Lessons were optional for pupils at the school, and the government of the school was carried out by a School Council, of which all the pupils and staff were members, with everyone having equal voting rights.
29.	This term the University is running a series of workshops for final year students on how to do well in interviews. These sessions will help participants prepare effectively for - and perform at their best during - later job interviews. The workshop tutors have an excellent record of success in helping students acquire the positions they desire.
30.	Honey has traditionally been credited with significant medical powers, and it has played a major part in many folk remedies. But it seems now its efficacy is not just an old wives' tale. Recent research has shown there is scientific evidence to prove that honey contains elements that prevent bacteria from growing.
31.	The College has a fascinating museum dedicated to archaeology and anthropology. It contains information about many of the studies which have been carried out by members of the College over the five hundred years of its existence. There are many unique exhibits brought back from excavations and explorations in all the continents.
32.	History rubs shoulders and often overlaps with many other areas of research, from myths and epics to the social sciences, including economics, politics, biography, demography, and much else besides. Some histories are almost pure narratives, while others go in for detailed, tightly-focused analyses of, for example, the parish records of a Cornish village in the 16th century.
33.	There are many kinds of pond, but nearly all are small bodies of shallow, stagnant water in which plants with roots can grow. Water movement is slight and temperatures fluctuate widely. The wealth of plants

	ensures that during daylight hours oxygen is plentiful. However, at night, when photosynthesis no longer takes place, oxygen supplies can fall very low.
34.	Before the time of Alexander the Great, the only eastern people who could be compared with the Greeks in the fields of science and philosophy were from the Indian sub-continent. However, because so little is known about Indian chronology, it is difficult to tell how much of their science was original and how much was the result of Greek influence.
35.	While far fewer people these days write letters and therefore have less use for stamps, there are still a few categories of stamp which attract collectors. Stamps in common use for an indefinite period - until the price goes up - are called "definitive" issues, while a more collectible type of stamp is the "commemorative" issue, honoring people, events and anniversaries.
36.	In the middle ages, the design and use of flags were considered a means of identifying social status. Flags were, therefore, the symbols not of nations, but of the nobility. The design of each flag resembled the "devices" on the noble's Coat of Arms, and the size of the flag was an indication of how high the owner stood in the nobility.
37.	The ritual of the state opening of parliament still illustrates the basis of the British constitution. The sovereignty of the Royal Family has passed to the sovereignty of parliament, leaving the monarchy with the trappings of power, while prime ministers are still denied the kind of status that is given to American and French presidents.
38.	Most peasants remained self-sufficient and skeptical about money - and with good reason: the triumph of capitalism probably made them worse off. They now had to deal with a centralized imperial state that was collecting tax more efficiently, giving more power to landlords, and slowly reducing customary peasant rights to land and produce.
39.	Another method governments use to try and influence the private sector is economic planning. For a long time now, socialist and communist states have used planning as an alternative to the price mechanism, organizing production and distributing their resources according to social and strategic needs, rather than based on purely economic considerations.
40.	Most succulent plants are found in regions where there is little rainfall, dry air, plenty of sunshine, porous soils and high temperatures during part of the year. These conditions have caused changes in plant structures, which have resulted in greatly increased thickness of stems, leaves and sometimes roots, enabling them to store moisture from the infrequent rains.
41.	Line engraving on metal, which, to a great extent, was a development of the goldsmith's craft of ornamenting armour and precious metals, did not emerge as a print-making technique until well into the 15th century. Copper, the metal mainly used for engraving, was expensive, and engraving itself was laborious and took a long time.
42.	For the first two or three years after the Second World War, a new title would often sell out within a few months of publication. However, unless public demand for the book was unusually high, they were rarely able to reprint it. With paper stocks strictly rationed, they could not afford to use up precious paper or tie up their limited capital with a reprint.
43.	The Atlantic coast of the peninsula can be thought of as the cold side, and the sea on this coast tends to be clear and cold, with a variety of seaweeds growing along the rocky shoreline. On a hot day, however, this cold water can be very refreshing and is said to be less hospitable to sharks, which prefer warmer waters.

44.	All the works of art shown in this exhibition were purchased on a shoestring budget. The criteria that the curators had to follow were that works must be acquired cheaply, appeal to a broad range of tastes, and fit with unusual environments. Thus, many of our better known modern artists are not represented.
45.	Foam-filled furniture is very dangerous if it catches fire, and foam quickly produces a high temperature, thick smoke and poisonous gases - including carbon monoxide. Therefore, set levels of fire resistance have been established for new and second-hand upholstered furniture and other similar products.
46.	The starting point of Bergson's theory is the experience of time and motion. Time is the reality we experience most directly, but this doesn't mean that we can capture this experience mentally. The past is gone and the future is yet to come. The only reality is the present, which is real through our experience.
47.	It is important to note that saving is not the same as investment. Saving is about cash, while investment is about real product. The difference is important because money, being liquid, can leak out of the economic system - which it does when someone who is putting aside unspent income keeps it under the mattress.
48.	Historically, the low level of political autonomy of the cities in China is partly a result of the early development of the state bureaucracy. The bureaucrats played a major role in the growth of urbanization, but were also able to control its subsequent development and they never completely gave up this control.
49.	Writers may make the mistake of making all their sentences too compact. Some have made this accusation against the prose of Gibbon. An occasional loose sentence prevents the style from becoming too formal and allows the reader to relax slightly. Loose sentences are common in easy, unforced writing, but it is a fault when there are too many of them.
50.	There is a long history of rulers and governments trying to legislate on men's hair - both the length of the hair on their heads and the style of facial hair. For practical reasons, Alexander the Great insisted his soldiers be cleanshaven, but Peter the Great of Russia went further, insisting no Russians had beards.
51.	Early in the 19th century, Wordsworth opposed the coming of the steam train to the Lake District, saying it would destroy its natural character. Meanwhile, Blake denounced the "dark satanic mills" of the Industrial Revolution. The conservation of the natural environment, however, did not become a major theme in politics until quite recently.
52.	In the distribution of wealth, America is more unequal than most European countries. The richest tenth of the population earns nearly six times more than the poorest tenth. In Germany and France, the ratio is just over three to one. The United States also has the largest proportion of its people in long-term poverty.
53.	Chaucer was probably the first English writer to see the English nation as a unity. This is the reason for his great appeal to his contemporaries. A long war with France had produced a wave of patriotism, with people no longer seeing each other as Saxon or Norman but as English.
54.	What can history tell us about contemporary society? Generally, in the past, even in Europe until the 18th century, it was assumed that it could tell how any society should work. The past was the model for the present and the future. It represented the key to the genetic code by which each generation produced its successors and ordered their relationships.
55.	The speaker reminisces about his views of the English Revolution when he was a student and how it seemed quite clear which side he was on - the aristocrats', not the puritans'. Later he realized there was more to it than that and there were several ways of interpreting the Revolution: as a struggle between the king and parliament, as a class war or as an unpredictable situation without clear sides.

56.	Some people object that in order for the eye to modify and still remain a useful instrument to its owner, many changes would have had to take place simultaneously. However, it is not necessary to suppose this if the modifications were extremely slight and gradual.
57.	The researchers enlisted real mothers and infants and quantified their interactions, which fell into four categories. One: babies wanted to maximize the amount of time smiling at their mothers. Two: they wanted to maximize the time the mothers smiled at them. Three: they wanted to experience simultaneous smiling, and four: no smiling at all.
58.	Study author Samuel Shian, a materials scientist, says this smart glass is cheaper than others, and uses minimal power— much less, for example, than something like a curling iron. And since it's flexible and foldable, he says it could even be used for things like camouflage uniforms, to switch, for example, from green and brown to white and gray. "This would be very useful when the background landscape suddenly changes, such as during early snowfall."
59.	In comparing material with non-material culture - the first being the objects and technologies we create, and the second our customs, beliefs and attitudes - the speaker gives greater emphasis to the material culture. He gives the example of the development of genetic science and the benefits it has brought to mankind, despite a fair amount of opposition.
60.	Beauty contests, whether it's Miss Universe or Miss Teen International, are demeaning to women and out of sync with the times. Opponents say that they are nothing more than symbols of decline. Since Australians Jennifer Hawkins and Lauryn Eagle were crowned Miss Universe and Miss Teen International respectively, there has been a dramatic increase in interest in beauty pageants in this country.
61.	At random times throughout the day, the program asked some 2,200 participants what they were doing, what they were thinking about and how they felt. Turns out that people spend nearly half their waking hours thinking about something other than what they're doing. And that whether and where their thoughts tend to stray is a better predictor of their feelings than what they're actually up to.
62.	Pudritzl and Heller suggest that hunters of extraterrestrial life may want to listen particularly closely for signals originating at star systems within that narrow band of galactic sky. Advanced civilizations there may have already detected us using the transit method, they say, and may now be sending us a message. You might think of this paper, then, like a treasure map, for intelligent life.
63.	Each tube-shaped microbot is a sandwich of three materials. A graphene outer layer, which binds to heavy metals. A middle layer of nickel, which gives the bots magnetic polarity, so they can be pulled through wastewater with magnets. And platinum inside—for propulsion. Just add a bit of peroxide to the wastewater, and it'll react with the platinum to form water and oxygen bubbles, which propel the tubes along.
64.	To examine what we really think about creativity, scientists asked students to present ideas for how airlines can get more revenue from their passengers. Half the students were told to come up with novel solutions, and the rest were asked to stick with something more tried-and-true. Other students who then listened to these pitches rated those who were innovative as having less leadership potential.
65.	Collins and Greg Stock, Yosemite's park geologists, wanted to know if small rock movements, induced by changing temperatures, might weaken cracks and contribute to rock falls. So the researchers—who were both climbers—found a suitable fracture near the base of a 500-meter-tall cliff and installed instruments called crack meters, which monitored the width of the crack over time.

66.	Over time a split would have appeared in wolf populations, he says: those wolves that feared humans, and those that didn't. "So this would have facilitated, I think, the domestication process. "At which point humans deliberately took wolves as pets. But that domestication process, Frantz says, may have happened more than once: first in the west, in Europe. And again in the Far East, in Asia.
67.	Nell says that, in order to seek protecting from their furry foes, birds actually prefer to build their nests in plots of swamp with a resident alligator. In fact, in one study a graduate student planted fake alligators. The birds seemed to prefer to build nests close to them. "Where there's a water source, there are alligators, so it's sort of this moat of protection around these colonies."
68.	Then the researchers thought, what if they could tap into this energy to develop a sort of sweat-powered "bio battery" Their proof-of-concept setup topped out at only about 4 micro Watts of juice-not even enough to run a watch. But with better electronics, exercising in the future could make dirty clothes and some clean energy.
69.	In 1998. James Thompson pronounced that he had isolated human embryonic stem cells in the laboratory. At last, these powerful cells were within the grip of scientists to experiment with, understand, and develop into fixes for the things that go wrong.
70.	Clichés are worn out, overused and over-familiar phrases, and the etymology of the word helps to explain this. Originally, a cliché or stereotype was a printer's term for a pre-set block of type with phrases used frequently in the newspapers. The word has since adopted a negative meaning and careful writers avoid them where they can.
71.	The medical center issued a statement saying that patient care was not compromised while their data was unavailable. Still, it's unsettling to hear that a hospital is shut out of parts of its own computer systems and unable to communicate electronically.
72.	Cooking certainly tenderizes food, making it easier to chew and digest. But evidence for human cook fires goes back only about 500,000 years, if that. Homo erectus had already evolved weaker jaws, and smaller teeth, more than a million years before that. So Lieberman and his colleague Katherine Zink began their investigation by recreating a Paleolithic dinner: yams, carrots, beets, And goat meat.
73.	In order to achieve the free flow of goods and services, with work and capital between the member countries, they needed to establish mutual politics in areas as diverse as agriculture, transport, and working conditions. When they had agreed on these policies, they became legal. Now, though, the EU is concerned with a far wider range of issues.
74.	Dolphins have adopted group living as a response to living in close contact with other animals in the ocean, some of which kill dolphins for food. Living in social groups makes it easier to hunt for food and, in a dangerous environment, it makes sense in terms of safety to move about in large numbers.
75.	Stem cells are the body's master cells, the rare material from which we are built. Unlike normal body cells, they can reproduce an indefinite number of times and, when manipulated in the right way, can turn themselves into any sort of cell in the body. The most versatile stem cells are those found in the embryo at just a few days old. This ball of a few dozen stem cells eventually goes on to form everything that makes up a human.
76.	When the European Economic Community was established in 1957, its aim was, in broad terms, to move towards closer political and economic co-operation. Today, the much bigger European Union has a far-reaching importance on many aspects of our lives, from the conditions we work under, to the safety standards we must adhere to, and the environment in which we live.

77.	Aldina Franco of the University of East Anglia, is one of the scientists who studied the storks' use of landfills in Portugal. GPS tracking devices on 17 birds showed that the landfill life might mean up to 100-kilometer round-trips to feed-healthy distances, but far shorter than their historic migration routes.
78.	The researchers think that this kind of coordination might have evolved because woodpeckers invest so much time and energy carving out their nest hole in a tree. If they were kicked out and had to start over, they might not get a chance to reproduce and fledge their offspring.
79.	The Roman state was tested almost to destruction by the defeat at Cannae by the Carthaginians led by Hannibal - and according to the historian Polybius it was only what he called the "peculiar virtues" of the Roman constitution that allowed it to survive this crisis.
80.	What we experience is processed by the brain into memories in three stages. First, there is the sensory input, which is momentary. This is then stored in the short term memory. If this experience is important or meaningful to us, we will reinforce the memory, possibly by repetition, and it will then be stored in the long-term memory.
81.	Florida's Everglades are home to lots of large wading birds, like egrets and herons. But the Glades also have lots of raccoons and possums. For the mammals, the birds' nests are an all-you-can-eat buffet. And when an invasion occurs," sometimes thousands of birds will abandon their nests. And leave, and there is littered remains of dead chicks and eggs that have been eaten." Stated Lucas Nell, an ecologist at the University of Georgia.
82.	But the connection does suggest your photos and social media posts can be used for more than bragging about brunch. "Sharing this data could be so valuable for academic research. We can actually use this data to do something good in the world. "Like giving local organizations and urban planners a better look at how and why cities change. All you 've got to do, is to add a few tags.
83.	The audio, which includes more than 1,000 separate data files, was captured in the early 1970s by the late Hetty van de Rijt. She recorded the various screams, barks, and how calls made by a group of chimps, including 17 youngsters, living in the Gombe National Park in Tanzania.
84.	Investigators also compared those microbes with those living in 52 other soil samples taken from all around the planet. The park had organisms that also exist in deserts, frozen tundra, forests, rainforests and prairies. Antarctica was the only area that had microbes that did not overlap with those found in Central Park. Only a small percentage of the park's microbes were found to be already listed in databases.
85.	Some of the pain patients may become hooked. Or their meds may find their way to friends or relatives who take them recreationally. Or a prescription opioid user may transition to heroin. "Heroin is just another opioid drug, so the brain doesn't distinguish whether it comes from a pharmacy or from a street drug dealer.
86.	So there's tremendous availability of prescriptions. There are some 260 million prescriptions written in each year for opioids. That's not tablets, that's prescriptions. So it's millions and millions of these and some of them are available for diversion and used inappropriately.
87.	It's projected that, over the next hundred years, temperatures on Earth could rise an average of nearly five degrees Celsius. While some animals might be able to migrate north to escape the brunt of the heat, plants can't uproot themselves quite so easily. Researchers wondered whether the creatures that disperse plant seeds might be able to help.

88.	The scientists say this is the first documented instance of nectar that attracts a particular animal assistant being produced outside of a nectary. In fact, the observed nectar bleeding might actually be an early system that evolved to include the nectaries found in other plants today. A process that, though not short, was certainly sweet.
89.	Investigations like this one have been plodding along for 40 years, and some studies-like one following the deadly Kobe quake in 1995- have found similar correlations. But study author Alasdair Skelton, a professor of geochemistry at Stockholm University, says the unpredictable study subject makes it tough to get funding, “because you can in no way guarantee a result. So I get three years of money, but if there’s no earthquake, there’s no result.”
90.	In 1861, Matthew Brady, a well- known portrait photographer, approached President Lincoln requesting permission to move freely about the country photographing the Civil War. Lincoln granted him permission to travel anywhere with the Union armies, and his record of this conflict brought home to millions the horrors of war.
91.	The most powerful among these were the Mthethwa under the leadership of Dingiswayo, who radically changed some aspects of traditional life during his reign. Formerly, military activity was based on local recruitment; men from a district would fight together under their chief.
92.	While clichés in writing reveal lazy thinking and are to be avoided at all costs, in the graphic arts they become essential, helping to get the message across quickly, clearly and with emotional force. This is especially true of advertising and propaganda where the impact must be immediate.
93.	A team of Johns Hopkins scientists study sodium channels responsible for electrical signaling in nerve cells from humans and from cockroaches. Spider venom protein messes with these sodium channels-which is why venom is dangerous. The researchers then use spider venom protein to disrupt the channels and thus clarify exactly how the channels function.
94.	Not all solar energy capture devices make electricity directly. For example, steam generated from solar energy can turn turbines, which then produce electricity. And, in what could be especially useful in remote regions, solar steam can desalinate water and be used in sanitation and equipment sterilization.
95.	Researchers tested water and sediment at the Cedars. Some samples got dosed with mercuric chloride to kill any life present. Those dosed samples produced no methane. But the samples in which microbes were allowed to survive did put out methane, confirming that at least some of the methane at the springs is indeed biological in origin.
96.	Chakraborty studied that process in large thunderstorm systems over the tropics, using data from geostationary and circumpolar satellites. He found that when more aerosols seed the air, like in places with lots of industrial or agricultural pollution, the same amount of water vapor gets absorbed by a larger number of aerosols. Meaning tinier-than usual cloud particle size.
97.	But that blockage can be cleared by applying an electric field of 1600 volts per centimeter, parallel to the chocolate’s flow. The effect would allow chocolatiers to cut cocoa butter by 10 to 20 percent and still not clog the pipes. The study appears in the Proceedings of the National Academy of Sciences.
98.	The problem is, that increased immune vigilance has a side effect: allergies. “Our speculation is that this is some kind of trade-off. In the past you needed to resist some kind of pathogen, and the trade-off or sacrifice you have to make is increased responsiveness to nonpathogenic allergens.” So next time some of you get the springtime sniffles, blame your distant ancestor-the one with the heavy brow ridge.

Repeat Sentence

1.	Races were held up here until the late seven days.
2.	Things are there on the horizon.
3.	We drove the car until the tank ran dry.
4.	He had a sore throat so I gave him my bottle of water and told him to keep it.
5.	Currents work in the same way long thin wires have more, resistance than do short thick wires.
6.	The turning point in our company came with the successful takeover.
7.	It was evident that Prince Andrew was not interested in such abstract conversation.
8.	Free people establish government to protect their rights.
9.	New products are driven not by some central authority but the free market.
10.	Sleep came without definition, as did the dream.
11.	The crisis is still a pivotal element in any constitutional law course.
12.	Her plan was to approach the building from the back parking lot.
13.	I thought I would begin with a quote from one of the most famous economists of all time.
14.	She felt comfortable enough now to approach that intimate conversation.
15.	You should add the remaining laptops into the pile over there.
16.	My mom made a milkshake with frozen bananas and chocolate sauce.
17.	A true friends never gets in your way unless you happen to be going down.
18.	The tree that beside the running water is fresher and gives more fruit.
19.	Your mind is stemming with ideas and not just randomly.
20.	In order to be happy oneself it is necessary to make at least one other person happy.
21.	To understand this problem, consider our relationship with knowledge over the centuries.
22.	With security and comfort came leisure, and the mind of early Man.
23.	In spite of being a mediocre athlete at best, Dean had thrived on sports.
24.	How did you know that I was going to have a peanut butter sandwich for lunch?
25.	Handsome faces and corrupt hearts act a large portion of the drama of human life.
26.	That boy is so mean that he doesn't care if a door slams in your face or if he cuts in line.
27.	The moms and dads all sat around drinking coffee and eating donuts.
28.	Faith is the strength by which a shattered world shall emerge into the light.
29.	A happy marriage is a long conversation that always seems too short.
30.	Are you going to have a blue birthday cake for your next birthday?
31.	I went to the dentist the other day and let me pick a prize out of the prize box.
32.	For 20 years, I have worked as instructor and a professor in biochemistry and biophysics.

33.	In fact, engineering science is an extremely abstract and theoretical science.
34.	My contention is that creatively now is as important in education as literacy.
35.	My band-aid wasn't sticky any more so it fell off on the way to school.
36.	Cells are the smallest units of an organism.
37.	After all that thinking, talking, and listening, I expect everyone will be a bit weary.
38.	The chocolate chip cookies smelled so good that I ate one without asking.
39.	Knowledge can be acquired by observing nature and its phenomena.
40.	For Long, Science remained entangled with superstition.
41.	Researchers calculate the difference between wilful and passive response to stimuli.
42.	I complimented him on his brilliant success in the examination.
43.	Marxism includes a theory of history with prescriptive prognoses for the future.
44.	We often err when it comes to concentration and perception.
45.	Scientific Laws demand induction from facts and not deduction from dogmas.
46.	When I called his residence in the morning, he was still in bed.
47.	The paradox is that the computer is man-made but seems to promise a non-human precision.
48.	We need to guard against the onslaught of digitized images and our dependence on them.
49.	Brutes joined hands with Cassius and assassinated Caesar.
50.	When a person is intimidated, in self-preservation he does everything to save his life.
51.	Bioremediation methods have been experimented to clear oil spills using bacteria.
52.	Monoculture crops are susceptible to pests, and require a lot of pesticide to prevent damage.
53.	Detoxification of the contaminated sites is expensive and time consuming.
54.	Self-esteem is a person's subjective appraisal of himself as positive or negative.
55.	You need not see him, send an email today itself.
56.	Humans are explorers and as explorers we like to map our discoveries.
57.	If their aspiration are not achieved, they become gloomy.
58.	New problems can only be solved by thinking and reaching beyond narrow disciplines.
59.	Natural selection is a very complex phenomenon and has baffled the smartest of brains.
60.	Wisdom is knowledge about certain principals and causes.
61.	Much of the involuntary muscular movement is necessary for existential survival.
62.	Global warming would mean flooded rivers, submerged sea coasts and disruption in agriculture.
63.	Living organism adapt to changing environmental conditions.
64.	Computers can store complex objects consisting of both data and programming instructions.
65.	Books for children often contain many beautiful illustrations.
66.	Generally young children around the world enjoy listening to stories.

67.	It's important that people with responsible jobs get plenty of sleep.
68.	Before electric lighting, adults generally slept about eight or nine hours per night.
69.	Even now scientists still don't know whether animals dream while they sleep.
70.	During some stages of sleep your eyes move rapidly behind your closed eyelids.
71.	Fatigue is a factor in a significant proportion of road accidents.
72.	Elephants spend some of their sleeping time standing up and some of it laying down.
73.	The tallest skyscrapers are known as supertall skyscrapers.
74.	Style is very important in the design of buildings.
75.	The biggest health problem in many places is lack of exercise.
76.	There must have been some ingenious architects in the past.
77.	In some countries sporting activities are compulsory even for university students.
78.	Despite the engineering difficulties buildings continue to get taller and taller.
79.	Often the point of advertisements is to raise awareness, rather than give information.
80.	To develop leadership skills, experience is very important.
81.	Sometimes ads promote a brand rather than a particular product.
82.	In most cases quality products don't need much advertising.
83.	Introverts as well as extroverts can be inspiring managers.
84.	Communication skills can be taught to anyone willing to learn.
85.	Usually but not always reviews provide an unbiased source of information.
86.	Farmers in Asia will need to produce more rice in order to feed the increasing population.
87.	We would use his brushes in new and interesting ways.
88.	In the art galleries main hall there is a nice sculpture carved from stone.
89.	Advertisements are all around us wherever we go whatever we do.
90.	Robotics is the science of developing robots.
91.	Robots are common in industry.
92.	Generally, consumers, trust friends more than commercial information such as advertisement.
93.	A bucket list is a list of things you need to do before you die.
94.	An American man wakes up in a motel in California and speaking Swedish.
95.	As a student union member, we can influence the change of the university.
96.	At the beginning of each game, he kneels on one knee during the singing of Athen.
97.	Colour bacteria thrive in warm water where the sanitation is poor.
98.	Egyptians were active some like a recipe for a healthy heart.
99.	Exam results will be available next week on the course website.
100.	Healthy children noticed that fearful face than any other emotions.

101.	Her knowledge of the forest is what he saved her life.
102.	I don't understand that what the comment of my essay means.
103.	I said I speak English and he speaks English we are not Spanish based people.
104.	If she doesn't speak the language, she will not sit around and wait for a translator.
105.	In the dark before dawn are assembled.
106.	It is now acknowledged that his work is ground-breaking.
107.	It was at this point that she went being the hunter to be hunted.
108.	It's never too early to start doing things you have always wanted to do.
109.	My mission is to help people be happier and healthier.
110.	Once I received abstract shapes and the others received an image of the face.
111.	One creates individual in Japan has made a similar protest for decades.
112.	One study asks people to keep daily journals recording their appreciation for their partners.
113.	Process and intensification provide a key competitive advantage in the market.
114.	Since the problems we face are global, we need to find global solutions.
115.	Some customers were looking for a place to hide their money for their home countries.
116.	Students are competing for every place in the computer courses.
117.	Students are instructed to hand in their assignments by the end of this week.
118.	That program depends entirely on private funding.
119.	The ancient Egyptians diet includes fruits and vegetables with barley.
120.	The biggest danger for food security is over-dependence on the single species of crops.
121.	The blood he received that during the operation was from non-donors.
122.	The plan raised a lot of money and improved the economy of the country.
123.	The solution to global hunger is genetic diversity.
124.	The timetable will be posted on the website after the class starting.
125.	The university supply a number of scholarships for qualified students.
126.	The world oldest seed banks created to provide the humanity food supply.
127.	There is considerably less supervision at university.
128.	These aquatic mammals are trained to patrol the coast.
129.	This is a prestigious program for our university.
130.	US is the largest manufacturer of chocolates.
131.	Without the dialogue, we will keep repeating the same mistakes.
132.	You can only choose one subject from biology and physics.
133.	The author expressed an idea that modern readers definitely cannot accept.
134.	I used to have a cup of coffee with milk and one sugar.

135.	There will be ample opportunities for asking questions after the presentation.
136.	Being a vegan means not eating/consuming any/other animal meat/products.
137.	I don't agree with the author's point of view, but his presentation is good.
138.	Fishing is a sport and a means for survival.
139.	My satisfaction was complete when she looked at me.
140.	It is easy to provide the definition of the world.
141.	The chief industries are weaving, leather making, dying and working in iron and pottery.
142.	The module develops our understanding of the theory behind advertising.
143.	Many privately-owned firms have been eaten up by larger corporations.
144.	Our group is meeting tomorrow in the library conference room.
145.	Students' identification cards will be issued today or tomorrow.
146.	Professor Smith will be late for today's lecture.
147.	We welcome international students from all over the world.
148.	Tutors are there for help, so do ask if you don't understand anything.
149.	Don't forget to hand in your assignments by next Tuesday.
150.	The flexibility is the key factor in this course this semester.
151.	I look in my closet for something to wear, but I couldn't find anything appropriate for the occasion.
152.	His tone tonight was nothing short of jealousy.
153.	Due to the rising number of courses, the university should increase their staff too.
154.	Could you pass the materials from all chapters in this course this semester.
155.	Here is only example, but there are lots of others.
156.	The seminar will now take place once a week on Tuesday.
157.	Measuring distance can take as long as three weeks.
158.	Please pass the handouts to the rest of people in your row.
159.	Without doubt, this theory has a number of limitations.
160.	Does the university have an ice hockey team?
161.	We are constantly looking for ways to bring industry and agriculture close together.
162.	Students were instructed to stand in a straight line outside of the classroom.
163.	39.5% of California residents speak a language other than English at home.
164.	The bar chart provides useful means of data comparison.
165.	Arteries pump blood from the heart to other parts of the body.
166.	Many medical volunteers no longer access to medical literature.
167.	This is not a question to be absolutely answered with a simple yes or no.
168.	If you have a question, ask me by email.

169.	For writing bibliography, you need to use Italic fonts.
170.	Students must hand in their assignments until Friday.
171.	You need to complete the application forms.
172.	Many students are afraid of writing essays, because they've never learned how to write one.
173.	Experts are now able to forecast the weather for a long period.
174.	Despite their differences, all forms of life share the same characteristics.
175.	Dr.Green's office is located in the first floor of the building.
176.	Students for information go to information desk in ground floor near to reception desk.
177.	All the necessary books and materials can be bought from this library.
178.	Hand in the assignments to other people in the line.
179.	There is a workshop on the other side of the campus behind the library.
180.	Students are not allowed to bring materials in the library.
181.	Everyone must evacuate the premises during the fire drill.
182.	Unfortunately, the most important economic lecture clashes with my timeline.
183.	Student services building is situated in the university campus behind the library.
184.	She used to be an editor of the students' newspaper.
185.	I would like to have one cheese sandwich with white bread.
186.	There will be significantly raise in tuition.
187.	Students can Change their courses during registration period.
188.	Environment friendliness is a new category in which campuses are competing.
189.	His appointment as culture minister was seen as demotion.
190.	Make sure you have saved all files before turning off the computer.
191.	The reception staff provide advice on renting private accommodation.
192.	Protective clothing must always be worn in the laboratory.
193.	There is not enough space for me in the car.
194.	Expertise in particular areas distinguishes you from other graduates.
195.	Water and earth are the two most common elements.
196.	You can only choose one subject from history and media.
197.	The students' health centre is located on the west side of the campus.
198.	Free campus tours run daily in summer for prospective students.
199.	To be graded distinction a score of least 80 % is needed.
200.	A 100 years ago Albert Einstein first published his theory of general relativity.
201.	There is position available for assistant lecture.
202.	The sport team members often practice on weekdays and play games on weekends.

203.	Negative discourse continues to be predominant in discussion of gender.
204.	In my free time, I would like to read books and newspapers.
205.	The generic biology technology lab is located at the North Wing of the library.
206.	The older equipment has been put at the back of the building.
207.	We want to attract the very best students regardless of their financial circumstances.
208.	We need to make sure the school principal knows about the changes.
209.	Make sure the financial director knows the full details of the pay agreement.
210.	Anonymous behaviours ..Without intervention.
211.	We didn't mean to ask him to do it because he cannot manage it.
212.	This hypothesis on black hole is rendered moot as the explanation of the explosion.
213.	Is hypothesis on black hole rendered moot as the explanation of astrophysics?
214.	Most of the lectures begin promptly, so do not be late.
215.	Eating too much can lead to many healthy problems.
216.	We must hand in our assignments by end of the week.
217.	I would like tomato and cheese sandwiches on white bread with orange juice

Answer Short Question

1.	A study of ocean?	Oceanography
2.	All powerful, possessing complete power and authority?	Omnipotent
3.	One who is present everywhere?	Omnipresent
4.	One who knows everything?	Omniscient
5.	Who look at the bright side of the thing: Optimist, Pessimist?	Optimist
6.	One who looks on the dark side of things: Pessimist, Optimist?	Pessimist
7.	A person without mother and father?	Orphan
8.	A place where orphans live?	Orphanage
9.	One who believes in traditional values?	Orthodox
10.	A supposed cure for all diseases or problems?	Panacea
11.	Study of diseases: Pathology, Biology?	Pathology
12.	Killer of one's own father: Patricide, Homicide?	Patricide
13.	Properties inherited from one's father?	Patrimony
14.	One who loves his/ her country: Patriot, terrorist?	Patriot
15.	Payment made in consideration of past service?	Pension
16.	Lover of mankind?	Philanthropist
17.	Study of stamp collection: Philately, numismatics?	Philately
18.	Study of words and their roots?	Philology
19.	The study of sound: Phonetics, Acoustics, all of the above?	All Of The Above
20.	The study of the body?	Physiology
21.	One who leads others?	Pioneer
22.	One who copies from other writers: Plagiarist, Cheater, Deceiver?	Plagiarist
23.	Literary theft or passing off an author's original work as one's own?	Plagiarism
24.	A government by the rich: Democracy, Plutocracy, Autocracy?	Plutocracy

25.	One who knows many languages: Polyglot, Linguistic, Multilanguage?	Polyglot
26.	A figure with many angles or sides?	Polygon
27.	A place where ships seek shelter?	Port
28.	A book published after the death of its author: Postscript, Posthumous or Post publish?	Posthumous
29.	Medical examination of a dead body?	Postmortem
30.	A short message added on to the end of a letter after the signature?	Postscript
31.	Water fit for drinking?	Potable
32.	An animal that preys on other animals?	Predator
33.	To form an opinion against anybody baselessly?	Prejudice
34.	Tendency to quarrel: Hot tempered, Pugnacity, Argumentative?	Pugnacity
35.	The study of ancient societies: Anthropology, Archaeology, History, Ethnology?	Archeology
36.	A person of good understanding knowledge and reasoning power: Expert, Intellectual, Snob, Literate?	Intellectual
37.	What is the list of the business or subjects to be considered at a meeting called?	Agenda
38.	One who possesses many talents is referred as?	Versatile
39.	A person who is above hundred years?	Centenarian
40.	A flesh eating plant or animal?	Carnivores
41.	A game in which no one wins?	Draw
42.	A person with evil reputation?	Notorious
43.	A paper written by hand is known as: Handicraft, Manuscript, Handiwork, or Thesis?	Manuscript
44.	Detailed plan of journey travelogue, Travel kit, Schedule, Itinerary?	Itinerary
45.	The environment related to organisms is called as?	Ecology
46.	A thing that is fit to be eaten?	Edible
47.	An exact copy?	Facsimile
48.	Anything that leads to death?	Fatal
49.	A person who eats too much: Glutton, Reveler, Omnivore, None above?	Glutton

50.	Likely to break apart easily: Hard, Harsh, Brittle, or Breakable?	Brittle
51.	A person living in a foreign country: Native, Broader, Remote, Foreigner?	Foreigner
52.	Perceptible to ear: Audible, Laudable, Praisable, Adorable?	Audible
53.	One who does not make mistakes?	Infallible
54.	One who goes on foot?	Pedestrian
55.	What are the words called which have the same meaning?	Synonym
56.	A person living at the same time as another: Historical, Contemporary, Time-fellow, Chum?	Contemporary
57.	Through which light cannot pass: Dull, Dark, Obscure, Opaque?	Opaque
58.	A man dances to the tunes of his wife?	Henpecked
59.	What is fear of water called: Acrophobia, Hydrophobia, Orthophobia (fear of correctness), or Gynophobia?	Hydrophobia
60.	That which is against law?	Illegal
61.	Things of same nature: Homogenous, Heterogeneous?	Homogenous
62.	A list of names books?	Catalogue
63.	A pleasant song used for causing children to sleep?	Lullaby
64.	A school for small children?	Kindergarten
65.	A coworker in the same institution is a colleague or a peer?	Colleague
66.	An assembly of hearers at a conference or concert?	Audience
67.	A shed for motor cars?	Garage
68.	A medicine that prevents infection by killing germs?	Antiseptic
69.	Arena is a: A place for indoor games, hockey, wrestling, or racing?	A Place For Wrestling
70.	What is a dormitory, Inner part of the city, sleeping room in an institution, exercise room in an institution?	Sleeping Room In An Institution
71.	Grand central terminal, Park Avenue, New York is the world's: largest railway station, highest railway station, longest railway station, none of the above?	Largest Railway Station
72.	Entomology is the science that studies: Behavior of human beings, Insects, The origin and history of technical and scientific terms, the formation of rocks?	Insects

73.	How many bones do a human being has, 206, 208?	206
74.	How many intestines does a human being have, 1 or 2?	2
75.	What is baby called when in the womb of mother?	Fetus
76.	In which century was the computer invented, 19th century, 18th century?	19th Century
77.	What classes does the primary level include, up to 5, up to 7?	Up To 5
78.	Which one is a domesticated animal: cat, camel or tiger?	Cat
79.	What is not a font style, Bold, Regular, Superscript, or Italic?	Superscript
80.	What does the shortcut keyboard key ctrl + X do?	Cut
81.	The bones around your chest that protect organs such as the heart are called what?	Ribs
82.	The two holes in your nose are called?	Nostrils
83.	The meat of cow is known as: beef or pork?	Beef
84.	Are human's omnivore, herbivore or carnivore?	Omnivore
85.	What is the capital of Italy- Rome or Tokyo?	Rome
86.	Trying to predict the weather is known as weather?	Forecasting
87.	What is the average temperature of the human body?	98.6 F Or 37 C
88.	The place or tank where fishes are kept is known as?	Aquarium
89.	What instrument is used to measure angles in geometry?	Protractor
90.	Which size of the newspaper is smaller, Tabloid or broadsheet?	Tabloid
91.	How many milligrams in a gram?	1000
92.	What is the largest cat in the world?	The Tiger
93.	What two colors are mixed to create the color purple, white and black or red and blue?	Red And Blue
94.	With which device the earthquakes are recorded?	Seismograph
95.	Which is the second largest country in land area?	Canada
96.	What is the most common blood type in humans O or B+?	O
97.	Which word does the "e" in e-mail stand for?	Electronic

98.	Which is the currency of Dubai?	Dirham (AED)
99.	Which is the largest planet in the solar system, Jupiter or mars?	Jupiter
100.	Which is largest, Kilobyte, gigabyte or megabyte?	Gigabyte
101.	What piece of equipment would you use for floating on the sea?	Aquaplane
102.	How do we weight butterfly?	Grams
103.	Gram, Kilogram and velocity, which on is used to measure the speed of butterfly wing?	Velocity
104.	In business and advertising what does PR stand for?	Public Relations
105.	What is term Immunology?	Immune Related HIV
106.	What is recession?	Downfall In Economy
107.	Increase in iron, good or bad for health?	Bad
108.	A post which carries no salary: honorary or honorable?	Honorary
109.	A place where birds are kept: Aquarium or Aviary?	Aviary
110.	The thing which catches fire easily: Irresistible or Inflammable?	Inflammable
111.	Power of reading the thoughts of others immediately: Homeopathy or Telepathy?	Telepathy
112.	A person who cannot read or write: Illiterate or Ignorant?	Illiterate
113.	Periodical published twice in a week: Bi-weekly or Weekly	Bi-Weekly
114.	Simplest and smallest form of plant life, present in air, water and soil; essential to life but may cause disease?	Bacteria
115.	One who attends to sick people and prescribe medicines?	Physician
116.	A list of books representing some scholarly work for reference?	Bibliography
117.	The art of cultivating and managing gardens?	Horticulture
118.	An event that occurs suddenly causing a great damage or suffering?	Catastrophe
119.	The property which a new wife brings to her husband?	Dowry
120.	A place where people may obtain food and refreshment?	Restaurant
121.	A nursery where children are cared for while their parents are at work?	Creche

122.	The person in charge of library?	Librarian
123.	The chemical breakdown of a substance by yeasts or some bacteria, etc.?	Fermentation
124.	Extreme fear from strangers?	Xenophobia
125.	One who studies the past through objects left behind?	Archaeologist
126.	A plant or animal growing on another?	Parasite
127.	What do you call tax on goods produced and used in a country?	Excise Tax
128.	A country ruled by two country?	Condominium
129.	A person who wishes to throw his establishment?	Anarchist
130.	A person who is active, lively and enjoys the company of others?	Extrovert
131.	What do you call the middle of something?	Center
132.	Who specializes in the study of psychological effect of words?	Psycholinguist
133.	Who specializes in the study of earth and its composition?	Geologist
134.	What do we call someone who studies about rocks?	Geologist
135.	The medical graduate serving as an apprentice in a hospital taking medical training is an?	Intern
136.	Treatment of diseases by drugs whose effect on the body is the opposite of the disease?	Allopathy
137.	The doctor who specializes in the treatment of children's diseases?	Paediatrician
138.	Person who believes in the existence of God?	Theist
139.	Two children born at same time?	Twins
140.	That which is subject to death?	Mortal
141.	Which subject is in the sphere of biology?	Genetics

Summarize Written Text

Paying for child

Many people who have written on the subject of allowances say it is not a good idea to pay your child for work around the home. These jobs are a normal part of family life. Paying children to do extra work around the house, however, can be useful. It can even provide an understanding of how a business works. Allowances give children a chance to experience the things they can do with money. They can share it in the form of gifts or giving to a good cause. They can spend it by buying things they want. Or they can save and maybe even invest it. Saving helps children understand that costly goals require sacrifice: you have to cut costs and plan for the future. Requiring children to save part of their allowance can also open the door to future saving and investing. Many banks offer services to help children and teenagers learn about personal finance. A savings account is an excellent way to learn about the power of compound interest. Interest rates on savings can be very low these days. But compounding works by paying interest on interest. So, for example, one dollar invested at two percent interest will earn two cents in the first year. The second year, the money will earn two percent of one dollar and two cents, and so on. That may not seem like a lot. But over time it adds up.

Sample answer 1 (Template): Whereas the fundamental essence of paying children for extra work around the home emphasizes the significance of allowances, the corresponding impacts of business understanding such as future saving and learning personal finance are acknowledged, and a savings account could be inferred evidently from sacrificing for costly goals, which the potential implications of compound interest power as well as ways of spending money are presumed. (64 words)

Sample Answer: Although people may find it inappropriate to pay children for work around home like doing household chores, paying children to do the extra can help them gain a better understanding of business and learn essential skills, and allowances can certainly help them to learn personal finance including investment and savings and the power of compound interests.

Uncovering Secrets of the Sphinx

The face, though better preserved than most of the statue, has been battered by centuries of weathering and vandalism. In 1402, an Arab historian reported that a Sufi zealot had disfigured it “to remedy some religious errors.” Yet there are clues to what the face looked like in its prime. Archaeological excavations in the early 19th century found pieces of its carved stone beard and a royal cobra emblem from its headdress. Residues of red pigment are still visible on the face, leading researchers to conclude that at some point, the Sphinx’s entire visage was painted red. Traces of blue and yellow paint elsewhere suggest to Lehner that the Sphinx was once decked out in gaudy comic book colors. For thousands of years, sand buried the colossus up to its shoulders, creating a vast disembodied head atop the eastern edge of the Sahara. Then, in 1817, a Genoese adventurer, Capt. Giovanni Battista Caviglia, led 160 men in the first modern attempt to dig out the Sphinx. They could not hold back the sand, which poured into their excavation pits nearly as fast as they could dig it out. The Egyptian archaeologist Selim Hassan finally freed the statue from the sand in the late 1930s. “The Sphinx has thus emerged into the landscape out of shadows of what seemed to be an impenetrable oblivion,” the New York Times declared.

Sample answer 1 (Template): Whereas the fundamental essence of the Sphinx statue emphasizes the significance of preserving the statue, the corresponding impacts of religious errors such as archaeological excavations and residues of red pigment are acknowledged, and the buried colossus by sand could be inferred evidently from freeing the statue from the sand, which the potential implications of emerging into the landscape as well as an impenetrable oblivion are presumed. (66 words)

Small wars

In such an environment, warfare is no longer purely directed against the military potential of adversarial states. It is rather directed at infiltrating all areas of their societies and to threaten their existences. The comparatively easy access to weapons of mass destruction, in particular relatively low-cost biological agents, is of key concern. Both governmental and nongovernmental actors prefer to use force in a way that can be characterized as “unconventional” or also as “small wars”. War waged according to conventions is an interstate phenomenon. The “small war” is the archetype of war, in which the protagonists acknowledge no rules and permanently try to violate what conventions do exist. The protagonists of the “small war” observe neither international standards nor arms control agreements. They make use of territories where they do not have to fear any sanctions because there is no functioning state to assume charge of such sanctions or because the state in question is too weak to impose such sanction. This type of war does not provide for any warning time. It challenges not only the external security of the nation states and international community, but also their internal safety.

Sample answer 1 (Template): Whereas the fundamental essence of warfare emphasizes the significance of the military potential of adversarial states, the corresponding impacts of easy access to weapons such as low-cost Biological agents and small wars are acknowledged, and international standards could be inferred evidently from protagonists and sanctions, which the potential implications of weak states and the external security as well as the internal safety are presumed. (64 words)

Dinosaurs

What killed off the dinosaurs? The end of the Cretaceous Period saw one of the most dramatic mass extinctions the Earth has ever seen. The fossil record shows that throughout their 160 million year existence, dinosaurs took on a huge variety of forms as the environment changed and new species evolved that were suited to these new conditions. Others that failed to adapt went extinct. But then 66 million years ago, over a relatively short time, dinosaurs disappeared completely (except for birds). Many other animals also died out, including pterosaurs, large marine reptiles, and other sea creatures such as ammonites. Although the number of dinosaur species was already declining, this suggests a sudden catastrophic event sealed their fate, causing unfavorable changes to the environment more quickly than dinosaurs and other creatures could adapt. The exact nature of this catastrophic event is still open to scientific debate. The catastrophe could have been an asteroid impact, volcanic eruptions or the effect of both, together with more gradual changes in the Earth’s climate over millions of years. Whatever the causes, the huge extinction that ended the age of the dinosaur left gaps in the ecosystem that were subsequently filled by mammals and birds, allowing them to evolve rapidly.

Sample answer 1 (Template): Whereas the fundamental essence of mass extinctions of dinosaurs emphasizes the significance of the fossil record, the corresponding impacts of taking a variety of forms such as adapting to new conditions and evolving new species are acknowledged, and sudden catastrophic events could be inferred evidently from the environment's changes, which the potential implications of asteroid impacts, volcanic eruptions, and the Earth's climate changes as well as gaps in the ecosystem are presumed. (72 words)

The World Wide Web

By 1984, the internet had grown to include 1,000 host computers. The National Science Foundation was one of the first outside institutions hoping to connect to this body of information. Other government, non-profit, and educational institutions followed. Initial attempts to catalogue this rapidly expanding system of networks were simple. Among the first was Archie, a list of FTP information created by Peter Deutsch at McGill University in Montreal. However, the greatest innovation in the Internet was still to come, brewing in an MIT laboratory in Cambridge, Mass. The World Wide Web, or the Web, is often confused with the Internet. In fact, it is just one part of the Internet, along with email,

video conferencing, and streaming audio channels. In 1989, Tim Berners-Lee, now a scientist at the Massachusetts Institute of Technology, introduced a new system of communication on the Internet which used hyperlinks and a userfriendly graphical interface. His slice of the Internet pie came to be known as the World Wide Web. Berners-Lee says, "The Web is an abstract (imaginary) space of information. On the Net, you find computers –on the Web, you find documents, sounds, videos, information. On the Net, the connections are cables between computers; on the web, connections are hypertext links. The Web exists because of programs which communicate between computers on the Net. The Web could not be without the Net. The Web made the Net useful because people are really interested in information (not to mention knowledge and wisdom!) and don't really want to know about computers and cables."

Sample answer 1 (Template): Whereas the fundamental essence of the internet growth emphasizes the significance of the World Wide Web, the corresponding impacts of the body of information such as using hyperlinks and the userfriendly graphical interface are acknowledged, and expanding networks systems could be inferred evidently from the abstract space of information, which the potential implications of hypertext links, cable connections, and making the net useful as well as communicating programs are presumed. (70 words)

How to determine a protein's shape

About 120,000 types of protein molecule have yielded up their structures to science. That sounds a lot, but it isn't. The techniques, such as X-ray crystallography and nuclear magnetic resonance (NMR), which are used to elucidate such structures do not work on all proteins. Some types are hard to produce or purify in the volumes required. Others do not seem to crystallize at all—a prerequisite for probing them with X-rays. As a consequence, those structures that have been determined include representatives of less than a third of the 16,000 known protein families. Researchers can build reasonable computer models for around another third because the structures of these resemble ones already known. For the remainder, however, there is nothing to go on. In addition to this lack of information about protein families, there is a lack of information about those from the species of most interest to researchers: *Homo sapiens*. Only a quarter of known protein structures are human. A majority of the rest come from bacteria. This paucity is a problem, for in proteins form and function are intimately related. A protein is a chain of smaller molecules, called amino acids, that is often hundreds or thousands of links long. By a process not well understood, this chain folds up, after it has been made, into a specific and complex three-dimensional shape. That shape determines what the protein does: acting as a channel, say, to admit a chemical into a cell; or as an enzyme to accelerate a chemical reaction; or as a receptor, to receive chemical signals and pass them on to a cell's molecular machinery.

Sample answer 1 (Template): Whereas the fundamental essence of protein molecule structures emphasizes the significance of being hard to produce and crystallize, the corresponding impacts of protein families such as reasonable computer models and *Homo sapiens* are acknowledged, and threedimensional shapes could be inferred evidently from amino acids, which the potential implications of bacteria, chemical signals, and chemical reactions as well as the smaller molecules chain are presumed. (64 words)

Giraffes

In recent months, drought and overgrazing in northern Kenya have sent thousands of herders and their livestock into national parks and other protected areas, intensifying tensions over land and grazing. Violence has taken the lives of several rangers, and a surge in wildlife killings is devastating populations of one of East Africa's most majestic beasts: giraffes. "This affects all wildlife, but giraffes may be particularly hard hit," says Fred Bercovitch, a zoologist at Kyoto University in Japan and director of Save the Giraffes, a nonprofit in San Antonio, Texas. For hunters, "giraffes are an easy target," he notes. And as scientists have recognized only recently, giraffes have multiple species, and several populations are already in serious decline. In the past 30 years, populations of two East African varieties, the Nubian and reticulated giraffes, have plunged by 97% and 78%, respectively, and the International Union for the Conservation

of Nature may soon declare them critically endangered, says Doherty, who is involved in the assessment and leads the Reticulated Giraffe Project, a joint initiative with the Kenya Wildlife Service. In response to the threat, he and other scientists are stepping up research on the animals' birth and survival rates, movements, and interactions with resources and landscapes, hoping to pinpoint risks and focus conservation efforts.

Sample answer 1 (Template): Whereas the fundamental essence of protected areas emphasizes the significance of giraffes, the corresponding impacts of violence such as wildlife killings, drought and overgrazing are acknowledged, and endangered giraffe species could be inferred evidently from life threats, which the potential implications of animal's birth and survival rates as well as interactions with resources and landscapes are presumed. (57 words)

Negotiation

Negotiation is a common process in business to mainly solve business conflicts between both parties. Compromise is a basic negotiation strategy in which both parties give up something that they want in order to get something else they want more. Compromise usually occur in unfair parties when there is a fixed pie to be divided up, and whatever on one side gets, the other side loses. In compromise situations, neither side gets all of what they really want, but they each make concessions in order to reach an agreement that is acceptable to both. Both parties usually can reach win-win concept through compromise. However, negotiation cannot resolve all the conflict if one party is unwilling to resolve the problem.

Sample answer 1 (Template): Whereas the fundamental essence of negotiation emphasizes the significance of a business common process, the corresponding impacts of business conflicts such as compromising situation and dividing up a fixed pie are acknowledged, and making concessions could be inferred evidently from reaching an agreement, which the potential implications of a winwin concept as well as resolving a problem are presumed. (58 words)

Malaria may weaken the skeleton

Malaria parasites leave a trail of destruction in an infected person's body. The microscopic invaders massacre red blood cells, produce harmful chemicals, and sometimes damage the brain. A new mouse study suggests that the parasites can also weaken bones. If they do the same in people, they could stunt the growth of children infected with the disease. But the study also provides some good news, identifying a potential way to prevent the skeletal decline with a compound similar to vitamin D. "It's important work," says parasitologist Regina Joice Cordy of Emory University in Atlanta, who wasn't connected to the study. "It's taken us a step further," she adds, in understanding the long-term effects of malaria infections. Malaria parasites, which are transmitted through the bite of an infected mosquito, cause the most destruction during the part of their life cycle when they dwell in red blood cells circulating through the body. There, they reproduce and feast on oxygen-carrying hemoglobin proteins, releasing noxious byproducts. The parasites eventually explode from the blood cells, killing them in droves. Although researchers have also detected the parasites in bone marrow, where blood-forming stem cells reside, no one has known until now whether they damage the skeleton.

Sample answer 1 (Template): Whereas the fundamental essence of Malaria parasites emphasizes the significance of a destruction trail, the corresponding impacts of weakening bones such as stunting the growth of children and the skeletal decline prevention are acknowledged, and a compound similar to vitamin D could be inferred evidently from dwelling in red blood cells, which the potential implications of reproducing on hemoglobin proteins as well as the bone marrow and the brain damage are presumed. (72 words)

Parents' TV time may be the biggest influence on kids

Kids mimic what their parents do — and a new study on TV-viewing habits proves just that. Research published July 15 in *Pediatrics* shows that the amount of time parents watch TV is connected to how much TV their children watch, even more so than the location of the TV in the home or the family's rules for television watching. The American Academy of Pediatrics suggests that children and teens should only be allowed to use “high-quality” entertainment media for one to two hours per day. In addition, the house should have “screen-free” zones like the children's bedroom, where there are no TVs, computer games or video games. The TV should be turned off during dinner, the academy adds. Each hour of TV viewed by the parents was linked to an additional half hour of viewing time for children. Children whose parents watched more than the average also watched more compared to kids whose parents stuck to the four hours daily. Parents' TV time had a stronger association to how much time children watched television compared to house rules on time limits, whether the children had a TV in the bedroom and whether the family was watching together. Parents who restricted television time only were able to cut down viewing times for children who were in the 6 to 11-year-old age group. Adolescents watched about one more hour of TV than their parents thought they did, the results also showed.

Sample answer 1 (Template): Whereas the fundamental essence of mimicking parents emphasizes the significance of kids' TV-viewing habits, the corresponding impacts of high-quality entertainments such as screen-free zones and additional viewing time are acknowledged, and parents' TV time could be inferred evidently from restricted television time, which the potential implications of adolescents' watching hours as well as rules on time limits are presumed. (59 words)

Connection between international environmental law and policy

The connection between international environmental law and policy and developments at a national level is becoming significantly closer. In the past two decades, many developed countries have greatly increased the number of statutes enacted to address environmental matters. This growth can be seen, in part, as a reflection of the number of international conventions being negotiated multilaterally and bilaterally. In the last five years, there also has been an increasing trend for developing countries and countries whose economies are in transition to introduce environmental legislation. This growth in the number of conventions and the consequential increase in environmental statutes on the same subjects is not surprising, given that conventions almost invariably place obligations on signatory countries to take steps, legal and otherwise, to implement their provisions. As a result of the increasing awareness of environmental problems at a national level, more national environmental law will be written, with similar approaches taken to similar problems. Greater similarity will also be encouraged by the fact that the law of developed countries is very often used as precedential material for the drafting of legislation in developing countries. Furthermore, homogenization of legislative approaches is encouraged by the publication of model legislation being developed by secretariats of international environmental conventions. For example, the Basel Convention Secretariat has published a comprehensive set of model national provisions on the movement of hazardous wastes. Finally, with more training programmes being conducted for lawyers and others by UNEP, UNDP and IUCN, common legislative approaches are often promoted. The connection between international environmental law and policy and developments at a national level is becoming significantly closer, and law of developed countries is very often used as precedential material for the drafting of legislation in developing countries, furthermore, homogenization of legislative approaches is encouraged by the publication of model legislation being developed by secretariats of international environmental conventions.

Sample answer 1 (Template): Whereas the fundamental essence of international environmental law and policy emphasizes the significance of national-level developments, the corresponding impacts of the international conventions such as increasing environmental statutes and placing an obligation are acknowledged, and increasing awareness could be inferred evidently from homogenization of legislative approaches, which the potential implications of a legislation model as well as lawyers' training programs are presumed. (63 words)

Democracy Government

A government is the organization, machinery, or agency, through which a political unit exercises its authority, controls and administers public policy, and directs and controls the actions of its members or subjects. The government makes laws, regulate economies, conduct relations with other countries, provide infrastructure and services, and maintain an army and a police force amongst others on behalf of the people of the country. Democracy is any system of government in which the people have the rule. The ancient Greeks used the word democracy to mean government by the many in contrast to government by the few. The key of democracy is that the people hold ultimate power. Abraham Lincoln best captured this spirit by describing democracy as a government of the people, by the people, for the people. Democratic government is opposed to an authoritative government, where the participation of its citizenry is limited or prohibited, and a state of anarchy where no form of government exists. Over the years there has been a dramatic growth in the number of political regimes that meet basic standards of procedural democracy. Such procedures include freedom of association and expression, competitive elections that determines who holds political power, and systematic constraints on the exercise of authority. The establishment of democracy in countries with no prior democratic experience, its re-establishment in countries that had experienced periods of authoritarian rule, and the expansion in the number of independent states following the demise of European and Soviet communism led to the adoption of democracy in most countries. As a result of these changes, attention has been focused on constitutional rules that guide competition for and the exercise of political authority under democracy.

Sample answer 1 (Template): Whereas the fundamental essence of a government emphasizes the significance of public policy, the corresponding impacts of making laws such as democracy and holding ultimate power are acknowledged, and a government of the people by the people could be inferred evidently from an authoritative government, which the potential implications of a state of anarchy as well as freedom of association, competitive elections, independent states and constitutional rules are presumed. (69 words)

Georges-Eugène Haussmann

To bring fresh water to the city, his hydraulic engineer, EugèneBelgrand, built a new aqueduct to bring clean water from the Vanne River in Champagne, and a new huge reservoir near the future ParcMontsouris. These two works increased the water supply of Paris from 87,000 to 400,000 cubic meters of water a day. He laid hundreds of kilometers of pipes to distribute the water throughout the city, and built a second network, using the less-clean water from the Ourq and the Seine, to wash the streets and water the new park and gardens. The population of Paris had doubled since 1815, with no increase in its area. To accommodate the growing population and those who would be forced from the center by the new boulevards and squares Napoleon III planned to build, he issued a decree annexing eleven surrounding communes, and increasing the number of arrondissements from twelve to twenty, which enlarged the city to its modern boundaries. Beginning in 1854, in the center of the city, Haussmann's workers tore down hundreds of old buildings and cut eighty kilometers of new avenues, connecting the central points of the city. Buildings along these avenues were required to be the same height and in a similar style, and to be faced with cream-colored stone, creating the signature look of Paris boulevards. Napoleon III also wanted to build new parks and gardens for the recreation and relaxation of the Parisians, particularly those in the new neighborhoods of the expanding city,]Napoleon III's new parks were inspired by his memories of the parks in London, especially Hyde Park, where he had strolled and promenaded in a carriage while in exile; but he wanted to build on a much larger scale. Working with Haussmann and Jean-Charles Alphand, the engineer who headed the new Service of Promenades and Plantations, he laid out a plan for four major parks at the cardinal points of the compass around the city. Thousands of workers and gardeners began to dig lakes, build cascades, plant lawns, flowerbeds and trees, construct chalets and grottoes. Napoleon III created the Bois de Boulogne (1852-1858) to the west of Paris: the Bois de Vincennes (1860-1865) to the east; the Parc des Buttes-Chaumont (1865-1867) to the north, and ParcMontsouris (1865-1878) to the south.

Sample answer 1 (Template): Whereas the fundamental essence of bringing fresh water to the city emphasizes the significance of a new huge reservoir, the corresponding impacts of the water supply of Paris such as distributing the water throughout the city and using the less-clean water are acknowledged, and the growing population could be inferred evidently from Haussmann's workers, which the potential implications of four major parks, as well as recreation and relaxation of the Parisians are presumed. (73 words)

Living things

It was once assumed that all living things could be divided into two fundamental and exhaustive categories. Multicellular plants and animals, as well as many unicellular organisms, are eukaryotic—their large, complex cells have a well-formed nucleus and many organelles. On the other hand, the true bacteria are prokaryotic cell, which are simple and lack a nucleus. The distinction between eukaryotes and bacteria, initially defined in terms of subcellular structures visible with a microscope, was ultimately carried to the molecular level. Here prokaryotic and eukaryotic cells have many features in common. For instance, they translate genetic information into proteins according to the same type of genetic coding. But even where the molecular processes are the same, the details in the two forms are different and characteristic of the respective forms. For example, the amino acid sequences of various enzymes tend to be typically prokaryotic or eukaryotic. The differences between the groups and the similarities within each group made it seem certain to most biologists that the tree of life had only two stems. Moreover, arguments pointing out the extent of both structural and functional differences between eukaryotes and true bacteria convinced many biologists that the precursors of the eukaryotes must have diverged from the common ancestor before the bacteria arose. Although much of this picture has been sustained by more recent research, it seems fundamentally wrong in one respect. Among the bacteria, there are organisms that are significantly different both from the cells of eukaryotes and from the true bacteria, and it now appears that there are three stems in the tree of life. New techniques for determining the molecular sequence of the RNA of organisms have produced evolutionary information about the degree to which organisms are related, the time since they diverged from a common ancestor, and the reconstruction of ancestral versions of genes. These techniques have strongly suggested that although the true bacteria indeed form a large coherent group, certain other bacteria, the archaeobacteria, which are also prokaryotes and which resemble true bacteria, represent a distinct evolutionary branch that far antedates the common ancestor of all true bacteria.

Sample answer 1 (Template): Whereas the fundamental essence of living things emphasizes the significance of multicellular plants and animals, the corresponding impacts of a well-formed nucleus such as subcellular structures and translating genetic information into proteins are acknowledged, and the molecular processes could be inferred evidently from prokaryotic and eukaryotic cells, which the potential implications of the amino acid sequences as well as the reconstruction of ancestral versions of genes and a distinct evolutionary branch are presumed. (73 words)

Napping (2)

Naps aren't generally included in the litany of good-for-your-heart lifestyle choices recommended for lowering cardiovascular risk, but they may soon be. New research suggests a midday siesta may reduce a person's risk of death from heart disease, possibly by lowering stress levels. The findings must be confirmed, but Dimitrios Trichopoulos, MD, a study author, tells us that there is little downside to taking naps — and there could be big health benefits. "The siesta is a victim of progress. Most of us aren't in the position to take a daily nap," he says. "But our research suggests that the practice could help protect the heart, and we need further studies to find out if this really is the case." Trichopoulos says the research stemmed from the observation that heart disease death rates are lower in Mediterranean and Latin American countries where midday siestas are part of the culture. His own earlier research in a Greek population provided weak evidence in favor of the nap hypothesis, but another, larger study, conducted in Costa Rica failed to show an association. The newly published Greek study by Trichopoulos and colleagues from the Harvard School of Public Health in Boston,

and Greece's University of Athens Medical School is the largest ever to examine the issue in a previously healthy population. A total of 23,681 residents of Greece with no history of heart disease, stroke, or cancer at enrollment were followed an average of 6.3 years. And the study revealed that people who took naps at least three times a week for average of at least 30 minutes were 37% less likely to die of heart disease than people who did not take regular naps.

Sample answer 1 (Template): Whereas the fundamental essence of a daily nap emphasizes the significance of reducing the risk of heart diseases, the corresponding impacts of siesta's health benefits such as lowering stress levels and reducing heart disease death rates are acknowledged, and the nap hypothesis could be inferred evidently from being a part of the culture, which the potential implications of being less likely to die as well as nap length and cardiovascular diseases prevention are presumed. (74 words)

American English Dominance

Firstly, from the macroscopic view, the dominance of American English is not precipitated by the language itself, so the arising of English dominance in international communication is not solely the dominance of language itself. Just as the professor Jean Aitchison Oxford pointed out, the success of a language has much to do with the power of the people who use it but has little to do with internal features of the language. It is obvious in consideration to English. During the 18th century and 19th century, the influence of the British Empire began to spread around the world for the sake of industrial revolution, so English began to become popular. English was used not only in the British colonies but also in the diplomatic negotiations of nonEnglish-speaking countries. However, no matter how powerful the adaptivity is and how large the area that the power of English covers, currently, the international status of English mainly springs from the status of America as a superpower after World War II. Besides, with the development of the economic globalization and new political structure, there is a great need of an international language. As result, American English became the first choice.

Sample answer 1 (Template): Whereas the fundamental essence of American English dominance emphasizes the significance of the successful language, the corresponding impacts of economic globalization such as global communication and internal features of the languages are acknowledged, and an international language could be inferred evidently from a new political structure, which the potential implications of using English language in diplomatic negotiations as well as needing a foreign language are presumed. (66 words)

Sample answer: Although English became popular during the 18th and 19th centuries due to the influence of British Empire for the sake of industrial revolution, American English becomes the first choice as an international language, since the dominance of American English is associated with the power of the people who use it, specifically with America holding a superpower after World War II, instead of the internal features of the language.

Benefits of honey (2)

According to Dr. Ron Fessenden, M D, M.P.H. the average American consumes more than 150 pounds of refined sugar, plus an additional 62 pounds of high fructose com syrup every year. In comparison, we consume only around 1.3 pounds of honey per year on average in the U.S. According to new research, if you can switch out your intake of refined sugar and use pure raw honey instead, the health benefits can be enormous. What is raw honey? It's a pure, unfiltered and unpasteurized sweetener made by bees from the nectar of flowers. Most of the honey consumed today is processed honey that's been heated and filtered since it was gathered from the hive. Unlike processed honey, raw honey does not get robbed of its incredible nutritional value and health powers. It can help with everything from low energy to sleep problems to seasonal allergies. Switching to raw honey may even help weight-loss efforts when compared to diets containing sugar or high fructose corn syrup. I'm excited to tell you more about one of my all-time favorite natural sweeteners today.

Sample answer 1 (Template): Whereas the fundamental essence of the health benefits of sweeteners emphasizes the significance of consuming refined sugar, the corresponding impacts of natural sweeteners such as pure raw honey and the nectar of flower are acknowledged, and weight-loss efforts could be inferred evidently from an unpasteurized sweetener, which the potential implications of nutritional values as well as health powers are presumed. (60 words)

Cocoa

During the time of the Aztecs, cocoa was mainly used as a beverage. Wines and drinks were made from white pulp around the seeds of the cocoa pod. The beans themselves were used to make hot or cold chocolate drinks. Both the Maya and the Aztec secular drinks used roasted cocoa beans, a foaming agent sugar, toasted corn and water. Vanilla and/or chili were also used as an ingredient in the drinks. Cocoa beans were also used as a currency and as a tribute tax from peoples ruled by Aztecs. The oily layer floating in the chocolate drink cocoa butter was used to protect the skin against the sun. For the Aztecs cocoa had a religious significance. Cocoa was believed to be of divine origin: the cocoa tree was a bridge between earth and heaven. Human sacrifices to propitiate God or sun were first sanctified by giving him chocolate. Cocoa beans were given to priest's assistants at children's coming of age ceremonies. During marriage ceremonies, the couple drank a symbolic cup of chocolate and exchanged cocoa beans. Aztecs believed that drinking chocolate gave mortals some of Quetzalcoatl wisdom. – God of learning and of the wind.

Sample answer 1 (Template): Whereas the fundamental essence of Aztec time emphasizes the significance of cocoa beverage, the corresponding impacts of chocolate drinks such as a currency and a tribute tax are acknowledged, and religious significance could be inferred evidently from protecting the skin, which the potential implications of divine origin as well as sacrificing to propitiate god are presumed. (56 words)

Pace of Aging: Australia and Japan

In 2005 Japan had the highest median age of all countries in the world, while Australia's population was only moderately aged. Some 50 years ago the demographic situation was quite different, with the median age of Australia's population being seven years older than Japan's. The ageing of the population is a major issue for Australian policy makers, particularly in regard to the long-term implications for reduced economic growth and the increasing demand for Age Pensions, and health and aged care services. As the population ages, growth in the number of people of working age will slow, while the proportion of people of retirement age will increase. Sustained population ageing also leads to slowing or negative population growth. While declining population growth in developed countries is welcomed by some environmentalist and social scientists, economists tend to agree that population decline brings gloomy economic prospects. In addition to the decrease in the labor supply, the demand side of the economy may be affected through shrinking markets for goods and services. How quickly this occurs depends on the dynamics of fertility, mortality and overseas migration. While a moderate pace of demographic change allows for gradual adjustment of the economy and policies to the changing population demographics, rapid changes are more difficult to manage. As a result, governments and society as a whole may need to take actions to address these issues. But how severe is the ageing of Australia's population, relative to other countries? One way of applying a degree of perspective to the ageing debate is to compare ageing in Australia with that of other countries. This article examines the population structures in Australia and Japan and the demographic forces that shape the respective populations, both historically and projections for the future. In 2005 Japan's population was ranked the oldest in the world, with half the people aged over 42.9 years. In comparison, Australia's median age is not projected to reach this level until 2032. Japan's population is projected to decline by 21% between 2005 and 2050 (from 128 million to 101 million). Over the same period, Australia's population is projected to increase by 38% from 20 million to 28 million people.

Sample answer 1 (Template): Whereas the fundamental essence of the highest median age emphasizes the significance of Australia's population, the corresponding impacts of Reducing economic growth such as the dynamic of fertility and

mortality are acknowledged, and overseas migration could be inferred evidently from Japan's population, which the potential implications of demographic situation as well as labor supply are presumed. (56 words)

The evolution of the RAS

The evolution of the RAS (Royal Agricultural Society) fits into the wider Western trend of promoting nationalism, progress and technology through exhibitory venues, which first became popular in the 1850s. Various types of fairs, from local agricultural shows to Worlds Fairs, were used as instruments of hegemony to support imperialism, to promote burgeoning capitalist endeavors, and to shape class identities, social spaces and public spaces. Visual culture and the art of display became essential in defining aspects of national distinction. Colonial nations in particular, such as Canada and Australia, were attempting to develop distinct national identities to differentiate themselves from British imperial power. Agricultural fairs in North America originated at the beginning of the nineteenth century and were devoted to educating practicing framers in ways of improving their cultivation of livestock and crops through the use of various technologies. In 1822, the RAS was created on the premise that was a dire need in Australia for the development of improved farming skills to better support growing urban populations and export markets. Organizations based on agricultural improvement, which were popular in Britain, provided camaraderie as well as political and financial support for their members. Once transferred to the colonies, in this case Australia, they played an integral part in converting and organizing land for colonial purposes.

Sample answer 1 (Template): Whereas the fundamental essence of royal agricultural society emphasizes the significance of promoting nationalism, the corresponding impacts of agricultural improvement such as farming skills and colonial purposes are acknowledged, and using of various technologies could be inferred evidently from national distinctions, which the potential implications of world's fairs as well as financial support are presumed. (55 words)

Are Individuals Enough?

Many human activities are responsible for the production of greenhouse gases. Generating electricity is the single largest source of CO₂ emissions in the United States, followed by transportation. Negative externalities are created by individuals that engage in more than the economically efficient amount of an activity, such as driving. Because the driver enjoys all of the benefits that come along with driving and only suffer part of the cost, they do not put a limit on how far or how often they should drive. The only way to get individuals to participate in reducing greenhouse gases is by having them bear all the costs of their actions. This is difficult because the costs are so little compared to the benefit, so why give up something that benefits more than sets you back. Two different methods are being proposed in order to help humans take into consideration the costs of their actions in order to reduce production of greenhouse gases. The methods proposed are government regulation and taxation. Unless the government sets regulations and taxes, the individual level of involvement will be very low and unless many people participate, the amount of greenhouse gases will not be significantly reduced.

Sample answer 1 (Template): Whereas the fundamental essence of human activities emphasizes the significance of being responsible for CO₂ emissions, the corresponding impacts of generating electricity such as reducing greenhouse gases production and bearing the cost of individuals' actions are acknowledged, and comparing little costs with higher benefits could be inferred evidently from governmental regulation and taxation, which the potential implications of the rate of involvement, as well as requiring a greater Public participation are presumed. (72 words)

Brain

It was once believed that the brain was independent of metabolic processes occurring elsewhere in the body. In recent studies, however, we have discovered that the production and release in brain neurons of the neurotransmitter serotonin (neurotransmitters are compounds that neurons use to transmit signals to other cells) depend directly on the food that the body processes. Our first studies sought to determine whether the increase in serotonin observed in rats given a large injection of the amino acid tryptophan might also occur after rats ate meals that change tryptophan levels in the blood. We found that, immediately after the rats began to eat, parallel elevations occurred in blood tryptophan, brain tryptophan, and brain serotonin levels. These findings suggested that the production and release of serotonin in brain neurons were normally coupled with blood-tryptophan increases. In later studies we found that injecting insulin into a rat's bloodstream also caused parallel elevations in blood and brain tryptophan levels and in serotonin levels. We then decided to see whether the secretion of the animal's own insulin similarly affected serotonin production. We gave the rats a carbohydrate-containing meal that we knew would elicit insulin secretion. As we had hypothesized, the blood tryptophan level and the concentrations of tryptophan serotonin in the brain increased after the meal.

Sample answer 1 (Template): Whereas the fundamental essence of brain's independence from body's metabolic processes emphasizes the significance of production and release of neurons, the corresponding impacts of the neurotransmitter serotonin such as depending on food, Changing blood-tryptophan level and a parallel elevation are acknowledged, and increasing serotonin levels could be inferred evidently from injecting insulin into bloodstream, which the potential implications of eliciting insulin secretion, as well as raising concentration of brain's tryptophan serotonin, are presumed. (73 words)

Why is the night sky dark?

We see stars all around, so why doesn't their combined light add up to make our night sky--and surrounding space, for that matter--bright? German physicist Heinrich Wilhelm Olbers put the same puzzle this way in 1823: If the universe is infinite in size, and stars (or galaxies) are distributed throughout this infinite universe, then we are certain to eventually see a star in any direction we look. As a result, the night sky should be aglow. Why isn't it? In fact, the answer is far more profound than it appears. There have been many attempts at explaining this puzzle, dubbed Olbers' Paradox, over the years. One version implicated dust between stars and perhaps between galaxies. The idea was that the dust would block the light from faraway objects, making the sky dark. In reality, however, the light falling on the dust would eventually heat it up so that it would glow as brightly as the original sources of the light. Advertisement Another proposed answer for the paradox held that the tremendous red shift of distant galaxies--the lengthening of the wavelength of light they emit due to the expansion of the universe-- would move light out of the visible range into the invisible infrared. But if this explanation were true, shorter, wavelength ultraviolet light would also be shifted into the visible range-- which doesn't happen.

Sample answer 1 (Template): Whereas the fundamental essence of the dark night sky emphasizes the significance of explaining the puzzle, the corresponding impacts of distributing stars throughout the universe such as the infinite universe, blocking the light and implicating dust between stars and galaxies are acknowledged, and the wavelength of light could be inferred evidently from glowing brightly, which the potential implications of the invisible infrared as well as the visible range are presumed. (70 words)

Men and women differ little in political activities

ANN ARBOR—Prior research suggests that women involved in politics focus primarily on different policy concerns than men and are more likely than men to take part in informal, grassroots activities, while citing altruistic and civic aims as reasons for participation. However, a recent study published in the American Journal of Political Science by a

University of Michigan political scientist finds that female activists differ little from their male counterparts, many of whom engage in policy issues of more general concern at the national level for rewards that are largely material. "We expected to find gender differences among activists in terms of the activities in which they specialize, the gratifications they reap from taking part, and the issues that animate their participation," says Nancy Burns, U-M assistant professor of political science. "Probe as we might, we were surprised to find much more similarity than difference between men and women on all these dimensions." "Contrary to expectation, we find no statistically significant gender difference in how importantly issues involving basic human needs, children or youth, the environment, or crime or drugs figure in issue-based participation," the researchers say. They add, however, that men are slightly more likely to mention taxes (15 percent of men vs. 12 percent of women) and foreign policy (8 percent of men vs. 5 percent of women) as compelling concerns for taking part in politics. Women, on the other hand, are more likely to cite education percent of women vs. 7 percent of men) as primary reasons for participating in political activities.

Sample answer 1 (Template): Whereas the fundamental essence of gender differences in politics emphasizes the significance of female politicians, the corresponding impacts of focusing on different concerns such as taking part in informal activities, participation reasons, involving basic human needs, altruistic and civic aims are acknowledged, and female activists could be inferred evidently from male counterparts, which the potential implications of engaging in policy issues as well as taxes and foreign policy are presumed. (70 words)

Tree Ring Dating – Dendrochronology (2)

Dendrochronology or tree ring dating is the scientific method of dating based on the analysis of patterns of tree rings, also known as growth rings. Dendrochronology can date the time at which tree rings were formed, in many types of wood, to the exact calendar year. This has three main areas of application: paleoecology, where it is used to determine certain aspects of past ecologists (most prominently climate) archaeology and the history of art and architecture, where it is used to date old panel paintings on wood, buildings etc; and radiocarbon dating, where it is used to calibrate radiocarbon ages. In some areas of the world, it is possible to date wood back a few thousand years, or even many thousands. As of 2013, fully anchored chronologies in the northern hemisphere extend back 13,900 years. Dendrochronology is more visible in temperate zones, where the seasons differ more markedly. The inner portion of a growth ring is formed early in the growing season, when growth is comparatively rapid (hence the wood is less dense) and is known as "early wood" (or "spring wood", or "late-spring wood"); the outer portion is the "late wood" (and has sometimes been termed 'summer wood', often being produced in the summer, though sometimes in the autumn) and is denser. Many trees in temperate zones make one growth ring each year, with the newest adjacent to the bark. Hence, for the entire period of a tree's life, a year-by-year record or ring pattern is formed that reflects the age of the tree and the climatic conditions in which the tree grew. Adequate moisture and a long growing season result in a wide ring, while a drought year may result in a very narrow one.

Sample answer 1 (Template): Whereas the fundamental essence of the dendrochronology emphasizes the significance of analyzing patterns of tree rings, the corresponding impacts of the paleoecology such as calibrating radiocarbon ages and the climatic condition are acknowledged, and temperate zones could be inferred evidently from a growth ring's inner portion, which the potential implications of the late wood as well as a year-by-year record, a long growing season, adequate moisture, a drought and narrow rings are presumed. (73 words)

Newborns don't imitate adults

Many studies have indicated that from birth, infants imitate the behaviors and facial expressions of the adults around them. However, a team of Australian, South African and British researchers have released a study this week that refutes this widespread belief. "Numerous studies from the 1980s and 90s indicated no imitation by newborns, while others claimed it was there," says Virginia Slaughter, a biologist at the University of Queensland and co-author of the study.

"We wanted to clear up the confusion because the 'fact' that newborns imitate is widely cited, not just in the fields of psychology, neuroscience and paediatrics, but also in popular sources for parents." The international research team, led by Janine Oostenbroek, a psychologist at the University of York in the UK, exposed more than 100 infants to a broad range of gestures and recorded their responses at one, two, six and nine weeks of age. The gestures included social cues like adults poking their tongues out, frowning or grinning, as well as non-social cues such as pointing or opening a box. The findings showed no link between behaviors exhibited by babies in their first few months and the gestures they were exposed to. The babies were just as likely to exhibit gestures they had never seen before as repeat ones they had. For instance, babies stuck their tongues out just as frequently if they were being exposed to pointing or opening a box, rather than anything to do with mouths or tongues.

Sample answer 1 (Template): Whereas the fundamental essence of imitating the behaviors emphasizes the significance of the facial expressions, the corresponding impacts of Refuting a widespread belief such as indicating no imitation by newborns and clearing up the confusion are acknowledged, and a broad range of gestures could be inferred evidently from behaviors exhibited by babies, which the potential implications of repeating behaviors as well as exhibiting new gestures are presumed. (67 words)

UBC expeditions to the Canadian Arctic

This summer, 41 UBC alumni and friends participated in expeditions to the Canadian Arctic and the legendary Northwest Passage. Presentations, conversations and learning accompanied their exploration of the great outdoors aboard the Russian-flagged Akademik Ioffe, designed and built in Finland as a scientific research vessel in 1989. Her bridge was open to passengers virtually 24 hours a day. Experts on board presented on topics including climate change, wildlife, Inuit culture and history, and early European explorers. UBC professor Michael Byers presented on the issue of Arctic sovereignty, a growing cause of debate as ice melts, new shipping routes open, and natural resources become accessible. Recommended pre-trip reading was late UBC alumnus Pierre Bertons book, The Arctic Grail.

Sample answer 1 (Template): Whereas the fundamental essence of participating in expeditions emphasizes the significance of the Canadian Arctic, the corresponding impacts of a scientific research vessel such as being open to passengers and presenting different topics are acknowledged, and the issue of Arctic sovereignty could be inferred evidently from a cause of debates, which the potential implications of recommending pre-trip reading as well as the great outdoors are presumed. (66 words)

Aging world

We live in an ageing world. While this has been recognized for some time in developed countries, it is only recently that this phenomenon has been fully acknowledged. Global communication is "shrinking" the world, and global ageing is "maturing" it. The increasing presence of older persons in the world is making people of all ages more aware that we live in a diverse and multigenerational society. It is no longer possible to ignore ageing, regardless of whether one views it positively or negatively. Demographers note(observe) that if current trends in ageing continue as predicted(anticipated), a demographic revolution, wherein the proportions of the young and the old will undergo a historic crossover, will be felt in just three generations. This portrait of change in the world's population parallels the magnitude of the industrial revolution - traditionally considered the most significant social and economic breakthrough in the history of humankind since the Neolithic period. It marked the beginning of a sustained movement towards modern economic growth in much the same way that globalization is today marking an unprecedented and sustained movement toward a "global culture". The demographic revolution, it is envisaged, will be at least as powerful. While the future effects are not known, a likely scenario is one where both the challenges as well as the opportunities will emerge from a vessel into which exploration and research, dialogue and debate are poured. Challenges arise as social and economic structures try to adjust to the simultaneous phenomenon of diminishing young cohorts with rising older

ones, and opportunities present themselves in the sheer number of older individuals and the vast resources societies stand to gain from their contribution.

Sample answer 1 (Template): Whereas the fundamental essence of an aging world emphasizes the significance of global communication, the corresponding impacts of universal aging such as a multigeneration society and a demographic revolution are acknowledged, and undergoing a historic crossover could be inferred evidently from the industrial revolution, which the potential implications of moving toward modern economic growth as well as unknown future events, challenges and opportunities are presumed. (65 words)

Reorder Paragraph

- A) The word biology is derived from the Greek words 'Bios', meaning life.
- B) It is defined as the science of life and living organisms. An organism is a living entity consisting of one cell.
- C) It also studies how species evolve and interaction between ecosystems.
- D) Classification and behaviour of organisms are a major branch in biology science.

Answer: ABDC

- A) They knew that atoms contained electrons surrounding a positively charged nucleus.
- B) Physicists of the 1920s thought they had a solid grasp on what made up matter.
- C) Combinations of those two particles made up all of the matter in the universe, it was thought.
- D) They also knew that each nucleus contained a number of protons and positively charged particles.
- E) However, a few years later, a scientist discovered neutron, a third particle unknown before.

Answer: BADCE

- A) Therefore, bright colors may help lady birds blend in with the guys, and as a result, feed for longer without harassment from other hummingbirds.
- B) They tend to have bright blue heads and throats.
- C) But mate choice doesn't seem to drive these females' pretty plumage since males don't appear to prefer blue females.
- D) Female hummingbirds don't flash feathers to avoid being bothered by other hummingbirds.

Answer: DBCA

- A) Her job was to check on seedlings the firm had planted in those areas to restart the forest.
- B) In her first stab at a career, she also joined a commercial logging company that clear-cut with large machinery.
- C) Simard was born in the Monashee Mountains of British Columbia in 1960.
- D) The fledgling plants were often yellowed and failing, and Simard found that those trees were missing the resources that exist within a diverse community of plants.
- E) Her family of loggers selectively cut trees and dragged them out with horses, leaving plenty still standing.

Answer: CEBAD

- A) This is mainly due to the increasing generation of such solid waste and the burden posed on the municipal budget.
- B) The last reason is that little quantitative information has been provided.
- C) The solid waste management issue is the biggest challenge to the authorities of both small and large cities' in developing countries.
- D) In addition to the high costs, the solid waste management is associated with lack of understanding over different factors that affect the entire handling system.

Answer: CADB

- A) But as Charles Darwin put it: False facts are highly injurious to the progress of science, for they often endure long; but false views, if supported by some evidence, do little harm.
- B) Why are researchers holding back on ideas?
- C) Perhaps they are worried about proposing an idea that turns out to be wrong, because that might damage their chances of getting promotion or funding.
- D) To wit, it's important to get the facts right, but new ideas are useful, as long as they are based on reasonable evidence and are amenable to correction.

Answer: BCAD

- A) But then something funny happened: she stopped acting.
- B) Rising to fame in 1950s, Audrey Hepburn was one of the greatest actresses of her era.
- C) She spent the next 25 years working tirelessly for UNICEF, the arm of the United Nations that provides food and healthcare to children in war-torn countries.
- D) In 1953, she became the first actress to win an Academy Award.
- E) Despite being in her 30s and at the height of her popularity, Hepburn basically stopped appearing in films after 1967.

Answer: BDAEC

- A) First, there was the observation that the use of ointments containing peanut oil increased the risk of peanut allergy.
- B) The classical paradigm of sensitization to food occurring orally has shifted in favor of alternative routes, such as the skin and possibly the airways.
- C) Several epidemiological observations have put the skin at the centre of attention.
- D) Altogether, sensitization via the skin likely plays an important role in the development of food allergy.
- E) Then, food allergy was found in the skin barrier protein that leads to impairment of barrier function.

Answer: BCAED

- A) The bills won't stop coming, there will never be more hours in the day, and your work and family responsibilities will always be demanding.
- B) Effective stress management helps you break the hold stress has on your life, so you can be happier, healthier, and more productive.
- C) It may seem like there's nothing you can do about stress.
- D) But stress management is not a one-size-fits-all. That's why it's important to experiment and find out what works best for you.
- E) But you have a lot more control than you might think.

Answer: CAEBD

- A) This is good advice. The more I study successful people from all walks of life, the more I believe focus is a core factor of success.
- B) Peak performance experts say things like: you should focus, and you need to eliminate the distractions.
- C) Of the many options in front of you, how do you know what to focus on and how do you know where to direct your energy and attention?
- D) But there is a problem with this advice too.

Answer: BADC

- A) According to Witherly, when you eat tasty food, there are two factors that make the experience pleasurable.
- B) The second factor is the actual macronutrient makeup of the food.
- C) Steven Witherly is a food scientist who has been studying what makes certain foods more addictive than others.
- D) First, there is the sensation of eating the food, which includes what it tastes like, what it smells like, and how it feels in your mouth.

Answer: CADB

- A) Suddenly, the prospect of a dry, tightly sealed house begins to look very attractive.
- B) Roofing your house rarely rates high on the list of fun and exciting home remodelling projects.
- C) A beautiful new roof can also improve the curb appeal of your house.
- D) But when your home develops a leak, your attitude might take a sharp turn.

Answer: BDAC

- A) A super-Earth is a type of planet that is about twice the size of Earth and up to 10 times its mass.
- B) Before Earth and the other planets in our solar system existed, the sun may have been surrounded by giant rings of dust similar to Saturn's.
- C) Now they are only orbiting 5% of those sun-like stars, because of a lot of planets that have invaded into the galaxy.
- D) Those rings of dust may have prevented Earth from growing into a "super-Earth".
- E) Astronomers have discovered that super-Earths used to orbit about 30% of sun-like stars in our galaxy.

Answer: BDAEC

- A) Current findings indicate that delayed discounting is a potential therapeutic target for tobacco cessation.
- B) Behavioural outcomes are devalued as a function of the delay until they are experienced.
- C) Thus, understanding how delay discounting influences intertemporal choice between smaller, sooner and larger, later outcomes is critical and may lead to efficacious interventions for tobacco use.
- D) This process, known as delayed discounting, is reliably associated with cigarette smoking and other tobacco use.

Answer: BDAC

- A) When there isn't enough insulin or cells to stop responding to insulin, too much blood sugar stays in your bloodstream.
- B) Most of the food you eat is broken down into sugar and released into your bloodstream.
- C) There isn't a cure yet for diabetes, but losing weight, eating healthy food, and being active can really help.
- D) Over time, that can cause serious health problems, such as diabetes.
- E) When your blood sugar goes up, it signals your pancreas to release insulin.

Answer: BEADC

- A) If a depression intensifies, such that its maximum sustained winds reach 39 miles per hour, the tropical cyclone becomes a tropical storm.
- B) A tropical cyclone is a generic term used by meteorologists to describe a rotating, organized system of clouds and thunderstorms.
- C) Once a tropical cyclone reaches maximum sustained winds of 74 miles per hour or higher, it is then classified as a hurricane.
- D) The weakest tropical cyclones are called tropical depressions.

Answer: BDAC

- A) A million years ago, the soundtrack of the "sky island" mountains of East Africa may have been very similar to what it is today.
- B) These colourful, tiny, nectar-feeding birds are called sunbirds.
- C) They resemble hummingbirds and are common throughout Africa and Asia.
- D) That's because a group of tiny, colourful birds has been singing the exact same tunes for more than 500,000 years.
- E) The most famous eastern double-collared sunbirds, also known as the "sky island sunbirds," live at the peaks of tall mountains in East Africa from Mozambique to Kenya.

Answer: ADBCE

- A) When the Earth was formed 4.6 billion years ago, it would never have been called the Blue Planet.
- B) But there were violent collisions, explosions, and eruptions.
- C) There were no oceans, there was no oxygen in the atmosphere, and no life.
- D) This process of separation created the layers of the Earth as we know them.
- E) In fact, the Earth in its earliest stage was molten, which allowed elements to separate into layers within the Earth: gravity pulled denser elements toward the Earth's centre, while less dense materials accumulated near the surface.

Answer: ACBED

- A) The initial motivation for cycling was primarily related to economic reasons, as many people could not afford to pay the everyday cost of public transportation.
- B) Over the last decade, Bogota has been recognized for its large bike-dedicated infrastructure.
- C) These figures make Bogota the Latin-American city with the largest number of kilometres of bike lanes.
- D) Moreover, there has been a relatively recent initiative for encouraging bicycle usage as a sustainable mode of transport.
- E) The city is currently endowed with more than 450 km of bike paths and nearly 600 thousand trips are made by bicycle, accounting for 6% of the total daily trips.

Answer: BECAD

- A) He experimented with jokes and tried out simple routines on visitors.
- B) In 1955, Disneyland had just opened in Anaheim, California, when a ten-year-old boy walked in and asked for a job.
- C) Within a year, he had transitioned to Disney's magic shop, where he learned tricks from the older employees.
- D) Then he discovered that what he loved was not performing magic but performing in general.
- E) Labour laws were loose back then and the boy managed to land a position selling guidebooks for \$0.50 apiece.

Answer: BECAD

- A) This is based on data compiled by the research headed by Timmermans, which also shows households are responsible for more than half of this wastefulness, particularly during the holidays.
- B) But it won't be easy: even among the waste-conscious Dutch, more than 2 million tonnes of edible food is binned each year.
- C) Solutions for reducing food waste are within everyone's reach.
- D) The good news is there is plenty that can be done to save food.
- E) Across Europe, holidays have become synonymous with overeating and food waste.

Answer: EDCBA

- A) Electronic skin (e-skin) is categorised as an 'electronic wearable', a smart device worn on the surface of the skin to extract and analyse information relating to the wearer.
- B) A better-known electronic wearable is an activity tracker, which typically senses movement or vibrations to give feedback on a user's performance.
- C) Their aim is to produce stretchy, robust, flexible membranes that incorporate advanced sensors and have the ability to self-heal.
- D) Developers of e-skins, however, are setting their sights higher.
- E) More advanced wearables collect data on a person's heart rate and blood pressure.

Answer: ABEDC

- A) A carbon sink is a reservoir capable of accumulating and storing carbon for an indefinite period.
- B) The soil that sits right under our feet could be at the front lines of climate change, as it has a huge potential to act as a carbon sink.
- C) In doing so, it lowers the concentration of carbon dioxide (CO₂) from the atmosphere.
- D) Soil has the potential to remove an estimated 1.09 gigatonnes of CO₂ per year.

Answer: BACD

- A) When the plastic litter in our waterways and on the ground gets weathered and degrades, it eventually breaks down into millions of smaller and smaller pieces.
- B) Plastic specks smaller than five millimetres are called microplastics.
- C) While exposure to air pollutants have been associated with health impacts, including higher risk of respiratory infections, heart disease and lung cancer, science still lacks evidence about how microplastics and nano plastics are affecting the human body.
- D) Plastic bottles, bags and containers float in the sea and clog landfill sites.
- E) Nano plastics are even smaller (some are 500 times smaller than a human hair).

Answer: DABEC

- A) There is a lot of research that shows that when bilinguals speak in one of their languages, the other language is still active.
- B) It could also enhance metacognition: the awareness, monitoring and assessment of one's own knowledge and mental processes.
- C) More than half of people in Europe speak more than one language.
- D) The ability to speak more than one language is therefore thought to influence skills and processes used by our brain to acquire knowledge and make sense of our surroundings, known as cognition.

Answer: CADB

- A) Researchers revealed the brains of our canine companions can tell the difference between speech and non-speech when listening to human voices.
- B) They also show different responses to speech in an unfamiliar language.
- C) Dogs may appear to have selective hearing when it comes to commands, but research suggests they are paying attention to human chit-chat.
- D) The research team said these findings supported other studies that suggest animals may share some human skills.

Answer: CABD

- A) When patients are honest with their doctors, better decisions can be made about their health.
- B) Underscoring this important responsibility, throughout the Covid-19 pandemic, national polls have found that most Americans trust medical professionals to give them accurate information about the virus.
- C) They expect the same honesty in return and, indeed, the Hippocratic Oath demands as much of physicians.
- D) The doctor-patient relationship starts at birth and extends across one's life.

Answer: DACB

- A) Have you ever stopped to think where oxygen comes from?
- B) Plankton, seaweed, and other photo synthesizers produce more than half of the world's oxygen.
- C) Your first thought may be a rainforest, but here's a science fact for you: we can thank plant-based marine organisms for all that fresh air, according to the National Oceanic Service.
- D) While we may know the answer to this question, scientists still can't explain these other ocean mysteries.

Answer: ACBD

- A) To demonstrate this phenomenon, a video is released in which a laser is positioned on one side of a clear tank of water.
- B) A cool thing called 'total internal reflection happens when you point a laser beam at a jet of flowing water.
- C) Even as the water flow is gradually decreased, the laser beam remains contained inside the jet, until it eventually disappears when the water is turned off completely.
- D) When the light travels through the water, it is slowed by the heavier particles in the water, effectively 'trapping' the laser beam in the water.

Answer: BADC

- A) If you happened to be around the coast of Dubrovnik, you might have spotted two robots scouring the seafloor for debris.
- B) The drone will also help search for garbage when the water is clear by flying over an area of interest.
- C) Equipped with a gripper and a suction device, it will collect pieces of water and deposit them into a tethered basket that will later be brought to the surface.
- D) Litter collection will be taken care of by the second underwater robot.
- E) One underwater robot will be responsible for finding litter by venturing close to the sea floor.

Answer: AEBDC

- A) Yet this may be the greatest experiment that humans have conducted without a clear blueprint.
- B) Traditionally, farmers practiced crop rotation, whereby different crops were grown in succession on the same area of land.
- C) however, after 1945, monoculture became increasingly prevalent and now supplies not only most of our food but also a significant share of non-food crops like cotton,
- D) Since monoculture has evolved all over the world, you would think there's a vision behind it.

Answer: BCDA

- A) The human body is more capable than you think.
- B) Acids are ranked on a scale from 0 to 14 the lower pH level, the stronger the acid.
- C) If you ever swallow a razor blade, don't panic.
- D) That's just one of many fun facts about the human body you never learned in school.
- E) Human stomach acid is typically 1.0 to 2.0 meaning that it has an incredibly

Answer: CABED

- A) Based on the track record of the past two years, I predict that such discoveries will happen in 2022, yielding drugs that are promising enough to merit a clinical trial.
- B) In 2021, Exscientia followed that up with another drug for patients with tumours.
- C) In 2020, a British start-up called Exscientia said its new pill for OCD would be the first AI-designed drug to be tested on humans.
- D) For years, there's been a ton of hype about potential to transform drug discovery.

Answer: DCBA

- A) It involves applying a coordinated, collaborative, multidisciplinary and cross-sectoral approach to address potential or existing risks that originate at the animal-human-ecosystems interface.
- B) The rationale for extending a One Health approach to complex and multifactorial diseases is the growing realization that such diseases do have many pathological changes.
- C) The concept started as One Medicine, then One World One Health and more recently, simply One Health.
- D) One Health recognizes that the health of humans, animals and ecosystems are interconnected.
- E) The term "One Health" was developed in 2004 in relation to human infectious diseases such as SARS.

Answer: ECDAB

- A) Originated in traditional oral storytelling, fairy tales have evolved and continue to transform themselves vigorously to the present day.
- B) Fairy tales have been with us for a long history and influenced our culture profoundly.
- C) The most telling stories even have become a handy metaphor or shared knowledge of the fantasy code for communication in the popular culture.
- D) For example, the big wild wolf in Little Red Riding Hood can be alluded to be a malicious person or a villain who wants to seduce a girl.

Answer: BACD

- A) In the current image-guided medication process, the practitioner first identifies the region of interest using an ultrasound probe.
- B) The injected needle needs to travel through the body, passing internal body organs to reach the minute target area without causing a wound to the patient.
- C) When the desired anatomy is in view, the practitioner estimates the needle trajectory and insertion point.
- D) The inability to perfectly identify the needle tip makes it dangerous to advance the needle, leading to life-threatening seizures.
- E) Physicians who perform injections often use needles and other sharp objects, which can be invasive to the human body.

Answer: EBACD

- A) Projections suggested it would collapse by 2050, increasing skin cancer rates, harming crops, and destroying the marine food chain.
- B) The situation was dire. But today, we are on the path to recovery.
- C) In the 1980s, scientists discovered there was a hole in the ozone over the South Pole.
- D) Dr Susan Solomon contributed key findings to understand what was depleting the ozone layer and how to address it.
- E) In a video, she breaks down how we managed to fix this huge problem and shows the unbridled optimism that drove her to fix the ozone hole.

Answer: CABDE

- A) But they are so much more than cars: they're batteries, and batteries have uses far beyond transport.
- B) Done right, integrating electric vehicles into American society could help prevent power blackouts, and make solar energy more reliable sources of power for more people.
- C) The first step is to stop thinking about electric vehicles as cars that happen to be powered by batteries, and instead, see them as batteries that happen to be inside cars.
- D) Most Americans talk about electric vehicles solely as modes of transport which is understandable, given they have motors and wheels and get us around.

Answer: DABC

- A) He'd been shot and a bomb fell directly overhead.
- B) Victor Manuel Hernandez believes he wouldn't be alive today if it weren't for a banana tree.
- C) But as he recalls, the bomb landed in the leaves of the banana tree, which he believes prevented it from igniting shielding him from death.
- D) As a 14-year-old resistance fighter during the civil war in 1970s El Salvador, he hid beneath the tree's lush, green fronds when the military attacked his encampment.

Answer: BDAC

- A) Digital marketing is the component of marketing that uses internet and online-based digital technologies to promote products and services.
- B) Its development during the 1990s and 2000s changed the way brands and businesses use technology for marketing.
- C) The extension to non-Internet channels differentiates digital marketing from online advertising.
- D) Digital marketing extends to non-Internet channels that provide digital media, such as television and mobile phones.

Answer: ABDC

- A) In short, its money, in the form of paper or coins, usually issued by a government and generally accepted at its face value as a method of payment.
- B) In the 21st century, a new form of currency has entered the vocabulary, the virtual currency.
- C) Currency is a medium of exchange for goods and services.
- D) Virtual currencies such as bitcoins have no physical existence or government backing and are traded and stored in electronic form.

Answer: CABD

- A) Dozens of people were hospitalized after the fire Sunday.
- B) As many as 13 people were admitted into hospitals in critical condition.
- C) The city-run hospitals said two of its patients died, and the rest were discharged in a few hours.
- D) Hospitals worked Monday to save several people who were gravely injured in a Bronx apartment building fire.

Answer: DABC

- A) This has resulted in growing interest in the location, facilities and network of data centres.
- B) For more and more companies, planning for disaster recovery and business continuity has become a significant matter.
- C) The reason so many users take advantage of AT TOKYO data centres comes down to its trustworthiness.
- D) Since its founding, AT TOKYO has prioritized zero-downtime operation, building firm reliability for its facilities.
- E) In Japan, companies from around the world that are finding their way in the local market have found a fertile first call for data centre services in AT TOKYO.

Answer: BAECD

- A) It's unsurprising, then, that footage depicting neglect and mistreatment of animals has caused reputational damage to the food companies that were unaware of practices on the farms from which they source.
- B) Most meat eaten by Americans comes from concentrated animal feeding operations where animals have scant legal protections.
- C) For instance, the dairy company Fair life faced lawsuits after undercover footage apparently showed abuse of its cows.
- D) This barren legal landscape has led to a race to the bottom on animal welfare, resulting in animals bred to grow so fast that their vital organs can painfully lose function.

Answer: BDAC

- A) The work also raises the possibility that a drug could be developed to mirror the effects of that dietary restriction, by blocking cell's ability to take in leucine from the surrounding environment.

B) Drug resistance is the leading cause of death in women with estrogen-receptor-positive breast cancer, the most common form of the disease.

C) The connection of the amino acid leucine to drug resistance raises hopes that a relatively simple intervention, like a shift to a low-leucine diet, can reduce the incidence of drug resistance, which is responsible for a large portion of the roughly 40,000 breast cancer deaths every year.

D) Now, researchers have identified an ordinary dietary element that may increase the chances of a breast cancer becoming drug-resistant.

Answer: BDCA

A) Since this initial formulation, the term has been further developed and is now considered to encompass all the ecosystems of the Earth.

B) Today, some scientists have argued that the biosphere itself is a king of superorganism.

C) Each of the plants, animals, and other organisms serve as just a piece of the whole.

D) In 1875, the geologist Eduard Suess used the term biosphere to describe the location where all living things dwell.

E) The biosphere is thought to have developed about 3.5 billion years ago when the first living organisms began to appear.

F) It includes every living organism on the planet as well as their interactions with the earth, water, and air.

Answer: DAFEBC

A) Nehru's idea of secularism was equally indifferent to all religions and bothering about none of them.

B) Instead of doing any good, such secularism can do harm.

C) There is a difference between Gandhiji's concept of secularism and that of Nehru's.

D) Such secularism which means the rejection of all religions is contrary to our culture and tradition.

E) In Gandhiji's view, secularism stands for equal respect for all religions.

Answer: CEADB

A) As put by Juan Linz, a totalitarian scholar, the three main factors of a totalitarianism government are "a monistic centre of power; an ideology developed, justified and pursued by the leadership; and mass participation in political and social goals encouraged and even demanded by that same leadership."

B) Totalitarianism is a political and social concept that explains a form of government where the state has all control over the civilians.

C) Throughout the 20th century, the manifestation of totalitarianism was an extreme measure of harsh political occurrences.

D) Such government assumes full power, without any limitations.

Answer: BDAC

- A) The team found that the home ranges of individual pandas overlapped and, on a few occasions, two animals spent several weeks in close proximity.
- B) We know very little about wild pandas because they are so rare and live in almost impenetrable forest.
- C) The collars transmitted each animal's position every four hours, for up to two years.
- D) "Sometimes the pandas were within 10 or 20 meters of each other, which suggests the pandas were in direct interaction"; Hull says.
- E) But in 2010 and 2011, Vanessa Hull of Michigan State University and her colleagues were given permission to attach GPS tracking collars to five pandas in the Wolong National Nature Reserve in China.

Answer: BECAD

- A) For example, phones are known to cause problems due to radiation.
- B) Some people also make phone calls while driving, which cause incidents
- C) Technology has both advantages and disadvantages.
- D) I think it all boils down to how we use a particular technology.
- E) But we cannot deny the advantages of technology, for example, phones have brought the world closer.

Answer: CABED

- A) Correspondence with her husband, photographer Alfred Stieglitz, in particular, offers a raw, honest glimpse into creative mind.
- B) The two exchanged 25,000 pages of letters between 1915 and 1946, during which time she found her voice as an artist: first, through her flower paintings, and later, through landscapes and surrealistic still life's inspired by her mountainous, skull-studded surroundings in New Mexico.
- C) Georgia O Keeffe never formally recorded her theories about art.
- D) She did, however, leave a long trail of interviews and letters that reveal how she approached her painting practice-- and the rituals, experiences, and environments that inspired her.

Answer: CDAB

- A) Cameras help autonomous vehicles read street signs and the colour of traffic lights.
- B) The start-up, which has raised \$36 million in seed-stage funding so far, built its LiDAR systems from scratch.
- C) But LiDARs. aka light detection and ranging systems, do the important work of sensing and helping cars avoid obstacles, whether that's a fallen tree, drunk driver, or a child running out into the road.
- D) Now, a start-up called Luminar Technologies Inc. is unveiling a high-resolution LiDAR sensor that was five years in the making.

Answer: ACDB

- A) From this, he concluded that there was nothing that could be identified genetically as East African.
- B) Dr. Pitsiladis has spent years trying to identify why Ethiopian runners from the mountain region is so successful.
- C) He began by taking DNA samples but found that they all had a very different genetic make-up.
- D) He tested those children and found that their bodies processed oxygen more efficiently than many adult elite athletes in Britain.
- E) So he then looked at the East African way of life and found that as Children, 68 percent of all top Ethiopian or Kenyan runners ran, rather than walked, to school and back home, from the age of five onwards.

Answer: BCAED

- A) It is only through a chronological survey that students can begin to understand the process of social and cultural change, which is one of the principal purposes of history.
- B) That is not possible when historical events or topics are isolated and extracted from the web of historic time to serve some other curricular purpose.
- C) The people and events of the past can only be understood when viewed within the larger context in which they existed.
- D) The value of history also depends upon the chronological presentation of events through time.

Answer: CBDA

- A) Fibres suitable for clothing has been made for the first time from the wheat protein gluten.
- B) However, they are 30 times cheaper.
- C) Narendra Reddy and Yiqi Yang, who produced the fibres at the University of Nebraska in Lincoln.
- D) The fibres are as strong and soft as wool and silk.
- E) He says that because they are biodegradable, they might be used in biomedical applications such as surgical sutures.

Answer: ADBCE

- A) In particular, reckless behaviour which has traditionally concentrated on the role of the young drivers.
- B) A report conducted to examine the difference between male and female drivers in terms of travel characteristics and found that fatal crash rush occurred during morning periods.
- C) This is the data with road safety analyses that most accidents occurred at the periods as early as 5 AM in the morning to 7 AM.
- D) Laws need enforcement to be effective and the various programs should target areas of traffic safety, young drivers training crash reduction, and injury reduction.

Answer: BCAD

- A) The takeover battle raged for six months before Arcelor's bosses finally listened to shareholders who wanted the board to accept Mittal's third offer.
- B) It was taken over by Mittal, a Dutch-registered company run from London by its biggest single shareholder, Lakshmi Mittal, an Indian who started his first business in Indonesia.
- C) The story tells us two things about European business, both positive.
- D) Second, and more importantly, the Arcelor Mittal deal demonstrates Europe's deepening integration into the global economy.
- E) First, shareholder activism is increasing in a continent where until recently it was depressingly rare.

Answer: BACED

- A) We'll likely have two billion more mouths to feed by mid-century more than nine billion people.
- B) The spread of prosperity across the world, especially in China and India, is driving increased demand for meat, eggs, and dairy, boosting pressure to grow more corn and soybeans to feed more cattle, pigs, and chickens.
- C) If these trends continue, the double whammy of population growth and richer diets will require us to roughly double the number of crops we grow by 2050.
- D) But sheer population growth isn't the only reason we'll need more food.

Answer: ADBC

- A) The number of staff who wish to turn up and do a simple job and go home is relatively happy if they believe their work is secured.
- B) People want to keep working hard only if there are opportunities for promotion to a more challenging job.
- C) If this opportunity does not exist, they are most likely to be demotivated.
- D) However, any employee who wants to acquire more varied and responsible duties will not feel satisfied for long staying with the same and boring job.

Answer: ADBC

- A) Since European settlement they have had to compete with a range of introduced animals for habitat, food and shelter.
- B) These new pressures have also caused a major impact on our country's soil and waterways and on its native plants and animals.
- C) Some have also had to face new predators.
- D) Australia's native plants and animals adapted to life on an isolated continent over millions of years.

Answer: DACB

- A) The clot in blood vessels will block blood flow.
- B) When the clot is formed, it will stay in the blood vessels.
- C) Without the normal blood flow. It will cause muscle contraction.
- D) A heart attack is caused by the sudden blockage of a coronary artery by a blood clot.

Answer: DBAC

- A) This improvement is highly relevant to the increasing population of vegetarians.
- B) The school cafeteria provides food according to these vegetarian requirements.
- C) Vegetarians eat only vegetables. They do not eat meat.
- D) Many non-vegetarians also like vegetarian food.

Answer: CBDA

- A) We knew that once we began our internships, this would no longer be the case.
- B) So in approaching this impending summer period, what lingered in the back of our minds was a collectively felt, unspeakable thought: Were we really up to the challenge?
- C) During the school year, we had the benefit of being both unaccountable and omnipotent.
- D) Insulated from the consequences of such decisions, and privy to all critical information about the case, we were able to solve complex business problems with relative ease.
- E) The information would be more nebulous. and the outcomes of our decisions would be unpredictable.

Answer: CDAEB

- A) But while Eos being a goddess retained her youth, Tithonius began to age.
- B) He asked his beloved to grant him immortality.
- C) She couldn't do it on her own so she pleaded his case with Zeus, the supreme deity.
- D) Eos, Goddess of Dawn fell in love with a youth named Tithonius, and the two spent many happy years together.

Answer: DABC

- A) One day Aphrodite, jealous of the beauty of the earthly princess, Psyche, ordered her son to make the princess fall in love with the ugliest man on earth.
- B) Eros was the son of Aphrodite, goddess of love, and was always at her side to assist her in her matchmaking endeavours.

C) Eros set out to do his mother's bidding, but when he saw Psyche fell in love with her himself.

D) He was a blond and playful winged youth, armed with a golden bow and arrows. Whoever he shot at immediately fell in love.

Answer: BDAC

A) Traditionally, classics was essentially the philology of ancient texts.

B) Classics or Classical Studies is the branch of the Humanities dealing with the languages, literature, history, art and other aspects of the ancient world.

C) One of the most notable characteristics of the modern study of classics is the diversity of the field.

D) Although traditionally focused on ancient Greece and Rome, the study now encompasses the entire ancient world, thus expanding their studies to all the world.

Answer: BACD

Reading and Writing Fill in the blanks

Decision Science is a multidisciplinary field of study that focuses on the processes, methods, and motivations behind decision – making. The Decision Science Research Network on SSRN is an open access server that provides a _____ for authors to showcase their research papers in our digital library, speeding up the _____ and providing the scholarly community access to groundbreaking working papers and early stage research. With an increased focus on the capacity to capture, store, and access data, decision science has become a critical tool in analyzing large quantities of information to reveal _____ choices. While significantly informed by the cognitive and behavioral sciences, the application of decision science draws together qualitative and quantitative framework that provide _____ into decision- making in business, computer science, public health, environmental science, engineering, economics and finance, and systems of governance and the law. Its _____ on the transformation of data into actionable knowledge for decision-making makes scholarship in decision science highly collaborative.

- 1) venue, revenue, avenue, ingénue
- 2) denomination, dissemination, lamination, fulmination
- 3) proximal, optimal, dismal, primal
- 4) inspiration, insights, instillation, oversights
- 5) remonstrations, orchestration, concentration, perpetration

Answer: venue, dissemination, optimal, insights, concentration

The translation aims foremost at accuracy and _____ including the liveliness of the dialogue form. We have striven to preserve the natural _____ of the speech. This both helps and, in a way, hurts the readability of the translation. After all, these texts portray people speaking, and speaking to one another, and humans are not always the most _____ of speakers. This is recreated by Plato. Socrates' Defense is almost entirely comprised of Socrates speaking at length to his judges and so he sometimes finds himself, because he goes on for quite a while, and keeps _____ qualifications, and then loses his way, and so he moves to a new grammatical construction. Similarly, characters sometimes _____ one clause on top of another. Usually these run-on sentences are easy to follow and the effect is often an increasing intensity, but once or twice in Socrates' Defense Socrates seems rather to be finding his way into an idea and is less than eloquent.

- 1) competitiveness, complexity, completeness, competition
- 2) bestow, flow, outflow, glow
- 3) inconsequent, sequent, eloquent, consequent
- 4) pile, tile, vile, file

Answer: completeness, flow. Eloquent, inserting, pile

Many types of scientific evidence show that involvement in social relationships benefits health. The most striking evidence comes from prospective studies of mortality _____ industrialized nations. These studies _____ show that individuals with the lowest level of involvement in social relationships are more likely to die than those with greater involvement. The risk of death among men and women with the fewest social ties was more than twice as high as the risk for adults with the most social ties. Social ties also reduce _____ risk among adults with documented medical conditions. Among adults with coronary artery disease, the socially isolated had a risk of subsequent cardiac death 2.4 times greater than their more socially connected _____. In addition to mortality, involvement in social relationships has been associated with specific health conditions as well as biological markers indicating risk of preclinical conditions. Several recent review articles provide consistent and _____ evidence linking a low quantity or quality of social ties with a host of conditions.

- 1) off, beneath, across, on
- 2) impotently, consistently, competently, inadvertently
- 3) mentality, mortality, morality, mutuality
- 4) sneers, peers, careers, pioneers
- 5) dispelling, compelling, propelling, impelling

Answer: across, consistently, mortality, peers, compelling

Using a combination of scuba gear and remotely operated vehicles, marine biologists in California _____ sampled more than 1,400 corals from the ocean surface. The samples looked identical, and their internal structures were indistinguishable in scanning electron microscope images. Yet their genomes – their full genetic _____ books revealed the corals had diverged millions of years ago. That made sense for one of the species in the Red Sea’s Gulf of Aqaba, which was geographically separated from the others. But the other three newly _____ species lived together on the same reefs in the waters off South Asia. If the corals were living together, why didn’t one overtake the other two, the team, wondered. Examining habitat data from their dives, the researchers found the three distinct coral species _____ different water depths, with one abundant in the top 10 meters and the other two flourishing deeper down. The three coral species also had different concentrations of photosynthetic algae and pigments, suggesting they had distinct strategies for hosting their algae partners that provide food.

- 1) sampled, stapled, rumped, tripled
- 2) destruction, construction, obstruction, instruction
- 3) identified, certified, fortified, gratified
- 4) endeavored, savored, despised, favored

Answer: sampled, instruction, identified, favored

The telescope will hover in a gravitationally stable spot known as Sun-Earth Lagrange Point 2, which will allow it to stay aligned with Earth as the planet _____ around the sun. Because JWST is primarily designed to observe infrared light, it’s _____ to keep it protected from any heat or light that could _____ out the faint signals of distant stars and planets. With the sunshield. It should only reach a maximum of 185 degrees Fahrenheit on the side exposed to solar rays; the opposite side, where the telescope’s mirrors, detectors, and other _____ instruments live, will remain at a chilly – 388 degrees Fahrenheit. The _____ gravitational properties of the Lagrange Point ensure that JWST won’t flip around and fry its sensors while the solar panels and

computers freeze JWST should be ready to begin its primary scientific mission in roughly six months. The \$10 billion telescope is intended to last at least five years once its mission begins, and carries enough propellant to operate for a decade.

- 1) cohabits, orbits, inhibits, prohibits
- 2) brutal, crucial, provincial, special
- 3) disown, drown, frown, windblown
- 4) duplicate, delicate, rusticate, dediscate
- 5) fatiguing, proroguing, intriguing, interpreting

Answer: orbits, crucial, drown, delicate, intriguing

The practice of giving storms personal names appears to have _____ with Clement Wragge, an Australian meteorologist who in the 1890s entertained himself by naming storms after women, mythical _____, and politicians that he didn't like. The modern system of using personal names developed during World War II, when meteorologists began using women's names — often those of wives or girlfriends — instead of _____ designations based on latitude and longitude. Short and quickly understood, names were easier to _____ over the radio and easier to keep straight if there was more than one storm in a given area. The system was _____ in 1953 when the National Weather Service put together an alphabetical list of female names to be used for storms in the Atlantic basin. Male names were added to the list in 1979 when women's groups pointed out the sexism of using only female names.

- 1) originated, laminated, contaminated, vaccinated
- 2) figures, figuration, figurative, configures
- 3) worrisome, cumbersome, awesome, wholesome
- 4) transmit, transform, transfuse, transect
- 5) rationalized, decentralized, formalized, immortalized

Answer: originated, figures, cumbersome, transmit, formalized

Atomic nuclei come in a dizzying number of varieties. Scientists have discovered 118 chemical elements, _____ by the number of protons in their nuclei. Each of those elements has a variety of isotopes, different versions of the element formed by switching up the number of neutrons inside the nucleus. Scientists have predicted the _____ of about 8,000 isotopes of known elements, but only about 3,300 have made an appearance in detectors. Researchers expect FRIB will make a _____ dent in the missing isotopes. It may identify 80 percent of possible isotopes for all the elements up through uranium, including many never seen before. The most familiar nuclei are those of the roughly 250 isotopes that are stable: they don't _____ to other types of atoms. The ranks of stable isotopes include the nitrogen-14 and oxygen-16 in the air we breathe and the carbon-12 found in all known living things. The number following the element's name _____ the total number of protons and neutrons in the nucleus.

- 1) anguished, vanquished, languished, distinguished
- 2) existence, persistence, nonexistence, consistence
- 3) sizable, quotable, portable, sociable

4) decay, stray, array, foray

5) indicates, had indicated, indicating, indication

Answer: distinguished, existence, sizable, decay, indicates

Although online gaming is hugely popular, it is different from person-to-person socializing. But just as with a book club, playing a board game or even going to work, the online game is an opportunity, an excuse even, to _____ in a community sharing an experience. Sociologists make the point that going to a conference is only partly about the presentations; in reality it is about the coffee, the chat, the jokes, the friendships and contacts you can make. A final thought for banks or for anybody suggesting business interactions can be _____. Apple was the first computer company to open its own stores. Face to face interactions matter for consumers but also for brands and businesses. This is a _____ lesson for banks that they should be closing branches. In the commercial world analog products exist when they add value and deliver something the digital world misses. Central banks need to consider carefully the balance of _____ and digital.

1) externalize, capitalize, socialize, formalize

2) eventual, factual, lingual, virtual

3) sectary, salutary, sanitary, solitary

4) classical, arterial, whimsical, physical

Answer: socialize, virtual, salutary, physical

Animal collective behavior _____ itself in often-mesmerizing visual displays of swarming insects, flocks of birds in flight, and schools of fish pulsating underwater as a single unit. Now, researchers report they've found a possible reason for a _____ display of collective behavior from fish shoals in sulfur springs in Mexico: deterring predators. Behavioral ecologist Juliane Lukas explains to The Scientist that sulfur mollies gather in large shoals at the surface of the low-oxygen springs to avoid hypoxia. There, they're _____ for the picking by predators such as kingfishers, kiskadees, and other birds. When presented with a threatening stimulus, these 'carpets of fish', as Lukas describes them, repeatedly _____ the water in a wave-like fashion by diving down for a few seconds, triggering their neighbors to mimic their diving behavior. Lukas and her colleagues decided to investigate why.

1) reveals, reviews, conceals, repeals

2) foliar, unfamiliar, peculiar, familiar

3) snipe, tripe, recipe, ripe

4) disgruntle, disparage, disturb, distinguish

Answer: reveals, peculiar, ripe, disturb

Girls are more likely to have books read to them that include female _____ than boys. Because of these preferences, children are more likely to learn about the gender biases of their own gender than of other genders. The researchers _____ 247 books written for children 5 years old and younger from the Wisconsin Children's Book Corpus. The books with female protagonists had more gendered language than the books with male protagonists. The

researchers _____ this finding to "male" being historically seen as the default gender. Female-coded words and phrases are more outside of the norm and more notable. The researchers also compared their findings to adult fiction books and found children's books displayed more gender _____ than fictional books read by adults. In particular, the researchers examined how often women were associated with good, family, language and arts, while men were associated with bad, careers and math.

- 1) protagonists, cosmogonists, agonists, expressionists
- 2) hydrolyzed, paralyzed, catalyzed, analyzed
- 3) contribute, tribute, distribute, attribute
- 4) stereotypes, teletypes, prototypes, electrotypes

Answer: protagonists, analyzed, attribute, stereotypes

Invasive mosquito fish are often fearless. Free from the predators of their native range, these mosquito fish run _____, throwing naive ecosystems from Europe to Australia out of whack. To keep the problematic fish in check, scientists are trying to _____ fear back into the hearts of these swimmers with a high-tech tool: robots. In a laboratory experiment, a robotic fish designed to _____ one of mosquito fish's natural predators increased fear and stress responses in mosquito fish, impairing their survival and reproduction, researchers report December 16 in iScience. While robofish won't be deployed in the wild anytime soon, the research highlights that there are more creative ways of preventing _____ behavior from a species than simply killing them, says Michael Culshaw-Maurer, an ecologist at the University of Arizona in Tucson who wasn't involved in the study. "It's just wonderful seeing work in this area."

- 1) occupant, flippant, rampant, concordant
- 2) strike, accept, spike, drake
- 3) bequest, mimic, battle, conquest
- 4) unprivileged, unprecedented, unwanted, uncharted

Answer: rampant, strike, mimic, unwanted

Companies are struggling to compete in the market due to the availability of different types of competitors with those competitors providing similar products or _____ products. In addition, consumers nowadays are becoming more critical in term of their needs and wants. _____, the competition is getting harder day after day. Moreover, with so much variety of products and services, companies have to give more attention on getting the required competitive advantage. Competitive advantage is about how the company is trying to compete in the market. Therefore, it is the _____ of the benefits that the company is going to be able to deliver for its consumers while others are not. However, some studies have identified some factors that may effect on the competitive advantage of companies such as the provided quality, cost reduction, delivering time, _____, and flexibility to do changes on products or services whenever it is needed. Accordingly, selling the product or service with lower price than the competitors or selling products or services with higher quality than others' products and services will create a good competitive advantage for the company.

- 1) constitution, substitution, restitution, institution
- 2) However, instead, Additionally, Therefore

3) dissemination, determination, ordination, incarnation

4) captivity, aggregation, deprivation, innovation

Answer: substitution, Therefore, determination, innovation

Long ago, ancient mariners successfully navigated a perilous ocean journey to arrive at Japan's Ryukyu Islands, a new study suggests. Archaeological sites on six of these isles — part of a 1,200-kilometer-long chain — indicate that migrations to the islands _____ 35,000 to 30,000 years ago, both from the south via Taiwan and from the north via the Japanese island of Kyushu. But whether ancient humans navigated there on purpose or _____ there by accident on the Kuroshio ocean current, one of the world's largest and strongest currents, is unclear. The answer to that question could _____ light on the proficiency of these Stone Age humans as mariners and their mental capabilities overall. Now, satellite-tracked buoys that _____ a wayward raft suggest that there's little chance that the seafarers reached the isles by accident.

1) incurred, concurred, spurred, occurred

2) drifted, airlifted, sifted, shifted

3) drop, shed, place, embrace

4) insulated, simulated, stimulated, regulated

Answer: occurred, drifted, shed, simulated

With omicron spreading globally at a dizzying pace, scientists are scrambling to learn as much as they can about the latest worrisome variant of the coronavirus. First _____ in South Africa and Botswana at the end of November, omicron is already _____ too soon become the dominant variant — dethroning delta — in some regions, public health officials warn. In a few places, it already has. So answers, including how sick doe's omicron make people and how well do vaccines _____ it, can't come fast enough. A rising tide of data on omicron is beginning to provide a glimpse at what's ahead as we enter year three of the global pandemic, though many questions linger. And with many people preparing to gather with family and friends for holidays, experts are _____ for yet more case surges, compounded by already high infection rates in some countries linked to the still-prevalent delta variant. Omicron's collision with the holidays and travel is "a perfect storm". At this point, even vaccinated people should be _____ precautions, such as wearing masks indoors and testing before family gatherings.

1) spotted, clotted, plotted, allotted

2) poisoning, poisoned, pointed, poised

3) gobble, hobble, cobble, wobble

4) bracing, gracing, tracing, retracing

5) take, taken, taking, takes

Answer: spotted, poised, hobble, bracing, taking

Rationing may be of several types. Informal rationing, which precedes the imposition of formal controls, may consist of admonitions to consumers to reduce their _____ or of independent action taken by suppliers in allocating scarce supplies. Rationing according to use prohibits the less important uses of a commodity. Rationing by quantity

may limit the hours during _____ the commodity is available or may assign quotas of a commodity to all known and approved claimants. Rationing by value limits the amount consumers may spend on commodities that cannot be _____, consumers being allowed to make their own selections within the value limits imposed. Point rationing assigns a point value to each commodity and allocates a certain number of points to each consumer; this system is employed during periods of critical and increasing shortages when individuals begin _____ unrationed for rationed items, thereby spreading shortages. Consumers in a rationed economy are usually _____ to save by purchasing government bonds or by increasing their deposits in savings banks so that unspent money will not be used for increased purchases of unrationed items or for purchases on the black market.

1) presumption, consumption, assumption, subscription

2) what, which, where, when

3) standardized, propagandized, jeopardized, subsidized

4) instituting, persecuting, substituting, constituting

5) retorted, deported, exhorted, distorted

Answer: consumption, which, standardized, substituting, exhorted

Disposal of solid wastes is a _____ and widespread problem in both urban and rural areas in many developed and developing countries. Municipal solid waste (MSW) collection and disposal is one of the major problems of urban environment in most countries worldwide today. MSW management solutions must be financially _____, technically feasible, socially, legally acceptable and environmentally friendly. Solid waste management issue is the biggest challenge to the _____ of both small and large cities'. Valorization of food organic waste is one of the important current research areas. The conventional landfill, incineration, composting, and ways of _____ solid wastes are common as mature technologies for waste disposal. Traditionally, the most commonly used technologies for the treatment and valorization of the organic fraction of MSW are composting and anaerobic digestion (AD). The generation of organic solid waste (OSW) worldwide is dramatically increasing each year. Most of the OSW's are _____ of agricultural waste, household food waste, human and animal wastes, etc. They are normally handled as animal feed, incinerated or disposed to landfill sites.

1) slanting, stinging, stalling, shafting

2) unattainable, sustainable, objectionable, treasonable

3) plants, culture, authorities, history

4) reserving, preserving, deserving, handling

5) composed, disposed, composing, disposing

Answer: stinging, sustainable, authorities, handling, composed

Neuropsychological testing is one way to _____ cognitive health. However, this option can be costly and labor intensive. In many cases, basic screening will suffice for an understanding of a given individual's cognitive health status. There are a number of excellent tools available to _____ for basic screening and tracking of cognitive health. Many of these tools are designed for use with older people, but some are meant for use with younger people as well. The Alzheimer's Association website offers a cognitive assessment toolkit that includes the Medicare Annual Wellness Visit algorithm for the assessment of cognition. This assessment uses patient history, observations by

clinicians, and concerns _____ by the patient, family, or caregivers. The toolkit further includes three measures _____ for use by professionals to assess and track a patient's cognitive health. These measures include the General Practitioner Assessment of Cognition, Memory Impairment Screen, and the Mini-Cog brief psychometric test.

- 1) obsess, assess, possess, access
- 2) stationers, practitioners, petitioners, questioners
- 3) raised, rising, arising, praised
- 4) validated, intimidated, dilapidated, antedated

Answer: assess, practitioners, raised, validated

African culture varies not only between national boundaries, but within them. One of the key _____ of this culture is the large number of _____ groups throughout the 54 countries on the continent. For example, Nigeria alone has more than 300 tribes, according to Culture Trip. Africa has been importing and exporting its culture for centuries; East African trading ports were a crucial link between East and West as early as the seventh century, according to The Field Museum. This led to complex urban centers along the Eastern coast, often connected by the movement of raw materials and goods from _____ parts of the continent. It would be impossible to _____ all of African culture with one description. Northwest Africa has strong ties to the Middle East, while Sub-Saharan Africa shares historical, physical and social characteristics that are very different from North Africa, according to Britannica.

- 1) features, conjectures, issues, doubts,
- 2) ethnic, ethic, eugenic, epic
- 3) forelocked, interlocked, unlocked, landlocked
- 4) conceptualize, characterize, symbolize, synthesize

Answer: features, ethnic, landlocked, characterize

When you think of the tremendous technological progress we have made, it's amazing how little we have developed in other respects. We may speak contemptuously of the poor old Romans because they _____ the orgies of slaughter that went on in their arenas. We may _____ them because they mistook these goings on for entertainment. We may forgive them condescendingly because they lived 2000 years ago and obviously knew no better. But are our feelings of _____ really justified? Are we any less blood-thirsty? Why do boxing matches, for instance, attract such universal interest? Don't the spectators who attend them hope they will see some violence? Human beings remains as bloodthirsty as ever they were. The only difference between ourselves and the Romans is that while they were honest enough to admit that they enjoyed watching hungry lions tearing people apart and eating them alive, we find all sorts of sophisticated arguments to defend sports which should have been banned long ago; sports which are quite as _____ as, say, public hangings or bearbaiting.

- 1) polished, accomplished, relished, abolished
- 2) despise, adore, fancy, imagine
- 3) superiority, infertility, superficiality, superiority

4) barbarous, interesting, hospitable, friendly

Answer: relished, despise, superiority, barbarous

Educators are seriously concerned about the high rate of dropouts among the doctor of philosophy candidates and the _____ loss of talent to a nation in need of Ph.D.'s. Some have placed the dropout's loss as high as 50 percent. The extent of the loss was, however, largely a matter of expert guessing. Last week a well-rounded study was published. It was based on 22,000 _____ sent to former graduate students who were _____ in 24 universities and it seemed to show many past fears to be groundless. The dropouts rate was found to be 31 percent, and in most cases the dropouts, while not completing the Ph.D. requirement, went on to productive work. They are not only doing well _____, but, according to the report, are not far below the income levels of those who went on to complete their doctorates.

1) conventional, consequent, contradictory, contemporary

2) questions, questionnaires, commissionaires, luminaries

3) enrolled, enrolls, enrolling, enrollment

4) financially, considerably, traditionally, practically

Answer: consequent, questionnaires, enrolled, financially

Although a plethora of issues might result in drainage problems at present, certain situations have been witnessed which are more typical than the others. The primary reason behind crawl spaces and _____ basements is that it is not possible to drain the water away from the residence appropriately. Most of the time, the reason for this happens to be the gutters. Either the spigots have become _____ blocked or they are not pointed away from the house as needed, and the water is not following the appropriate route and is getting _____ in locations around the base, resulting in structural as well as landscape damage. It has also been observed that several types of individuals require drainage solutions after _____ a new landscaping venture. It is very important to grade your backyard, and even landscapers forget regarding this every now and then. Therefore, if you are thinking of beautifying your garden, always keep in mind to grade away from your residence!

1) intimidated, inundated, fecundated, dilapidated

2) comprehensively, obsessively, submissively

3) stimulated, interrogated, interrelated, accumulated

4) succeeding, completing, depleting, competing

Answer: inundated, excessively, accumulated, competing

In order to _____ the widespread problem of low literacy, educators and policymakers must first understand why so many students struggle to read. One reason is undiagnosed reading disabilities such as dyslexia or other brain-based learning difficulties, which are more effectively addressed when identified in children as early as kindergarten and ideally before the second grade. Environmental factors such as low _____ to literature or language barriers can also limit reading success. Many experts also argue that a major _____ factor is the lack of training teachers receive in identifying children who are at risk of reading failure and in building oral language and linguistic skills. Additionally, teachers may not receive explicit instruction on how to teach reading skills, and existing reading

curricula often do not _____ with the current science on how students learn. Studies suggest that _____ the science of reading practices studied by psychologists, linguists, and neurobiologists into the classroom will dramatically reduce the number of children who are on track to become functionally illiterate adults.

- 1) progress, address, distress, compress
- 2) expedition, exposure, composure, experimenter
- 3) attributing, contributing, contriving, debuting
- 4) align, feign, reign, deign
- 5) decelerating, incorporating, cooperating, commemorating

Answer: address, exposure, contributing, align, incorporating

A rainbow is most often viewed as a circular arc in the sky. An observer on the ground observes a half-circle of color with red being the color _____ on the outside or top of the bow. Those who are fortunate enough to have seen a rainbow from an airplane in the sky may know that a rainbow can _____ be a complete circle. Observers on the ground only view the top half of the circle since the bottom half of the circular arc is prevented by the presence of the ground. Yet observers in an airborne plane can often look both upward and downward to view the complete circular bow. The circle results because there are a _____ of suspended droplets in the atmosphere that are capable of concentrating the dispersed light at angles of _____ of 40-42 degrees relative to the original path of light from the sun. These droplets actually form a circular arc, with each droplet within the arc _____ light and reflecting it back towards the observer.

- 1) deceived, perceived, conceived, believed
- 2) mutually, annually, actually, intellectually
- 3) conception, collection, connection, competition
- 4) illuviation, abbreviation, aviation, deviation
- 5) pervading, submersing, traversing, dispersing

Answer: perceived, actually, collection, deviation, dispersing

Catholics venerate the saints and look to them as examples of lives well lived in the faith. Many find comfort in the _____ that holy people shared in their same struggles, sins, doubts, or hardships and ask specific saints to pray for them. Some saints are the patrons of certain occupations or causes, and these saints are often invoked to aid people in those professions or situations. For example, St. Judas (Jude) is the patron saint of impossible or _____ causes, and many Catholics ask him to pray on their behalf for the _____ of seemingly impossible situations in their lives. Additionally, many Catholics take or are given a saint's name for their confirmation. A confirmation saint is often seen as having an invested interest in _____ a new Catholic's spiritual growth and is usually chosen because his or her life story _____ with the neophyte. Most saints have feast days observed by the Catholic Church in which their lives and contributions are formally celebrated, and some have large followings of devotees and even religious orders in their honor.

- 1) relief, knowledge, disappointment, illusion,
- 2) complacent, desperate, insidious, satisfactory

3) devolution, resolution, convolution, absolution

4) fostering, forgiving, forging, foreseeing

5) abominates, culminates, hallucinates, resonates

Answer: knowledge, desperate, resolution, fostering, resonates

Coconut crabs spend most of their lives on land, but they start out in the ocean. On the new moon, a female coconut crab _____ larvae (which she's been carrying around in her abdomen since they were just fertilized eggs) into the ocean, and the babies _____ around in the currents for a month or so before dropping to the seafloor and finding nice, cozy snail shells to move into. Just like your childhood hermit crab friend, young coconut crabs move in and out of shells as they _____ up and get used to living on land. Sometimes a juvenile coconut crab will use a coconut husk or empty sea shell as _____ until its own shell gets harder. After about a year, the teens of the species eventually find there are no shells left on the beach large enough to _____ their bulk, so they move out altogether. From here on out, they live the rest of their lives out of the water — coconut crabs will drown if totally submerged.

1) deposits, discards, consumes, flaunts

2) bloat, afloat, float, gloat

3) follow, bulk, brush, sum

4) fellow, assistant, trophy, armor

5) abrogate, affiliate, approximate, accommodate

Answer: deposits, float, bulk, armor, accommodate

In some countries where racial prejudice is acute, violence has so come to be taken for granted as a means of solving differences, that it is not even questioned. There are countries where the white man _____ his rule by brute force; there are countries where the black man protests by setting fire to cities and by looting and pillaging. Important people on both sides, who would in other respects appear to be reasonable men, get up and calmly argue in favor of violence as if it were a _____ solution, like any other. What is really frightening, what really fills you with despair, is the realization that when it comes to the crunch, we have made no actual progress at all. We may wear collars and ties instead of war-paint, but our _____ remain basically _____. The whole of the recorded history of the human race, that _____ documentation of violence has taught us absolutely nothing.

1) exposes, imposes, composes, disposes

2) legitimate, feeble, questionable, doubtful

3) instruction, instillation, instrument, instincts

4) unchanged, fluctuating, solution, put

5) tedious, educational, valuable, interesting,

Answer: imposes, legitimate, instincts, unchanged, tedious

The establishment of the Third Reich influenced events in American history by starting a chain of events which _____ in war between Germany and the United States. The complete destruction of democracy, the _____ of Jews, the war on religion, the cruelty and barbarism of the Nazis, and especially the plans of Germany and her allies, Italy and Japan, for world conquest caused great indignation in this country and brought on fear of another world war. While speaking out against Hitler's atrocities, the American people generally favored isolationist policies and neutrality. The Neutrality Acts of 1935 and 1936 _____ trade with any belligerents or loans to them. In 1937 the President was empowered to declare an arms embargo in wars between nations at his _____. American opinion began to change somewhat after President Roosevelt's "quarantine the aggressor" speech at Chicago (1937) in which he _____ criticized Hitler's policies. Germany's seizure of Austria and the Munich Pact for the partition of Czechoslovakia (1938) also aroused the American people.

- 1) fulminated, culminated, cultivated, disseminated
- 2) persecution, construction, protection, allocution
- 3) prohibited, introduced, promulgated, permitted
- 4) secretion, accretion, concretion, discretion
- 5) politely, severely, pessimistically, securely

Answer: culminated, persecution, prohibited, discretion, severely

Science is a dominant theme in our culture. Since it touches almost every facet of our life, educated people need at least some _____ with its structure and operation. They should also have an understanding of the subculture in which scientists live and the kinds of people they are. An understanding of general _____ of science as well as specific scientific concepts is easier to attain if one knows something about the things that excite and frustrate the scientist. This book is written for the intelligent student or lay person whose acquaintance with science is superficial; for the person who has been presented with science as a musty storehouse of dried facts; for the person who sees the chief objective of science as the production of gadgets. The book can be used to _____ a course in any science, to accompany any course that attempts to give an understanding of the modern world, or independently of any course — simply to provide a better understanding of science. We hope this book will lead readers to a broader perspective on scientific attitudes and a more _____ view of what science is, who scientists are, and what they do.

- 1) acquaintance, concomitance, inheritance, capacitance
- 2) ostracism, irreverence, predilection, characteristics
- 3) implement, supplement, complement, supply
- 4) realistic, hilarious, intransigent, imaginative

Answer: acquaintance, characteristics, supplement, realistic

The Babylonians are the innovators behind the most well-known example of early advanced agriculture systems. Built nearly 2,500 years ago, their hanging gardens are thought to be the earliest _____ of a vertical farm (vertical refers to the practice of growing the plants upward to maximize growing space). Beyond this ancient Wonder of the World, there are myriad examples of how civilizations have worked to _____ their environments to make farming easier or more _____. One thousand years ago, the Mesoamerican Aztec society _____ a form of hydroponics (hydroponics is the science of growing plants without soil in a nutrient-rich solution). The Aztecs grew

plants on marshy 'rafts' suspended in rivers and shallow lake beds. The remnants of these small, rectangular areas of fertile, arable land, known as chinampas, can still be seen in Mexico City today.

- 1) prototype, failure, discredit, protocol
- 2) escape, manipulate, respect, disarrange
- 3) productive, constructive, connective, counterproductive
- 4) domineered, pioneered, volunteered, engineered

Answer: prototype, manipulate, productive, pioneered

This year's hole in the Earth's protective ozone layer — which grew to be larger than Antarctica — is finally set to close this week. _____ like a shield, ozone absorbs UV light from the sun. Its absence means more of this high-energy radiation reaches the Earth, where it can harm living cells. The ozone layer is depleted by chemical reactions that involve the by-products of human-made chemicals that _____ in the atmosphere. The size of the annual hole — which forms during the southern hemisphere's summer — is strongly dependent on weather conditions, and boosted by cold. Despite these natural fluctuations, experts _____ the hole to close permanently by 2050, in response to restrictions on ozone-depleting chemicals introduced in 1987. The current hole, which has been unusually large, is on track to last only a few days less than its _____ last year, which was the longest-lived on record since 1979.

- 1) Thinking, Perceiving, Acting, Rolling
- 2) vanish, absorb, defuse, linger
- 3) subject, expect, reject, object
- 4) nemesis, enemy, counterpart, alliance

Answer: Acting, linger, expect, counterpart

The geography of Scotland is varied and dramatic. From its rocky high mountains to its deep valleys, rivers, lochs and diverse coastline, Scotland attracts visitors from around the world to revel in the _____ beauty of this beautiful country. Scotland's coastline _____ for over 11,000 km, and includes a wide range of features, from white sand beaches in the Hebrides, to deep sea lochs reaching far inland, sheltered pebble enclaves and wide open expanses of sand in Aberdeen shire. This exceptionally diverse and beautiful coastline offers something for everyone. Wherever your self-catering base, the coast will always be an _____ target for a day trip — whether you decide to indulge _____ water-sports, bird watching, whale spotting or even some 'wild swimming', Scotland's coast is sure to delight. Scotland's islands are prolific and varied, with exposed Atlantic coasts and sheltered leeward coves. Each of Scotland's islands is home to many different species of flora and _____, as well as varied rock formations and features.

- 1) deficient, domestic, ascetic, majestic
- 2) runs, stands, lasts, builds
- 3) irretrievable, achievable, observable, inconceivable
- 4) in, on, with, to
- 5) sauna, fauna, faun, flower

Answer: majestic, achievable, in, fauna

Most inventors _____ to make money from an invention by licensing it to a larger company that will manufacture and sell the invention. However, they _____ the risk that potential licensees with whom they discuss the invention may learn enough about it to steal it or prevent them from patenting it. This means that the inventor would not receive any royalties from the invention. Sometimes an inventor will _____ a provisional patent application to prevent this problem. They would need to make sure that their invention meets the requirements for patent protection. If it does, a provisional patent application can give their invention patent pending status for a minimal fee. This will _____ an inventor's intent to move forward with obtaining patent rights for the invention. Another _____ for inventors to consider is requiring potential customers to sign a non-disclosure agreement, also known as a confidentiality agreement. This may be appropriate if the invention may not meet the patent requirements at this stage of its development, which means that they could not file a provisional patent application.

- 1) offer, claim, target, aim
- 2) face, avoid, reduce, accept
- 3) profile, defile, withdrew, file
- 4) integrate, signal, process, emigrate
- 5) option, adoption, assumption, conception

Answer: aim, face, file, signal, option

Just as young people used to spend unmonitored time playing with friends in the neighborhood, outside the periphery of adults, they are now _____ with each other in the cyberworld, 'talking' with each other, 'talking' to each other, and 'talking' about each other, often without adult or parental monitoring. While technology allows young people to connect in _____ ways, such as the opportunity to share ideas, photos, videos, and more, the unsupervised _____ of the cyberworld demands the need for guidance, guidelines, and social responsibility. Cyberbullying can happen _____ there is online social interaction. For example, some young people use social media, video games, texting, or anonymous apps to bully other youth, post embarrassing pictures, share private information, or send threatening messages. Students can use their access to a large online audience to encourage their peers to join them in targeting someone with gossip, rumors, and _____ stories.

- 1) complying, engaging, coping, fighting
- 2) dull, meaningful, trivial, inconsequential
- 3) nature, stature, ability, benefit
- 4) anyway, anyhow, anywhere, anyways
- 5) interesting, untrue, authentic, true

Answer: engaging, meaningful, nature, anywhere, untrue

A few years ago, a university professor tried a little experiment. He sent Christmas cards to a sample of perfect strangers. Although he expected some reaction, the _____ he received was amazing — holiday cards _____ to him came pouring back from the people who had never met nor heard of him. The great majority of those who

returned a card never inquired _____ the identity of the unknown professor. They received his holiday greeting card, and they automatically sent one in return. This study shows the action of one of the most powerful of the weapons of influence around us — the rule for _____. The rule says that we should try to repay, in kind, what another person has provided us. If a woman does us a favor, we should do her one in return; if a man sends us a birthday present, we should remember his birthday with a gift of our own; if a couple invites us to a party, we should be sure to invite them to one of ours.

- 1) response, respite, rudeness, ignorance
- 2) caressed, regressed, distressed, addressed
- 3) through, into, over, after
- 4) reciprocation. Adjudication, advocacy, verification

Answer: response, addressed, into, reciprocation

The Olympics _____ the noble ideal of sports overcoming the _____ of politics with champion athletes of all nations gathering in the spirit of sportsmanship. However, the stakes go beyond who wins the gold medal. Shortly after each competition, nations begin to vie afresh for the bid to host the next game. Winning the vote to host is not merely an honor, it is a political conquest in global recognition. It also spins revenue from the _____ of tourists, participants and Olympic related paraphernalia. However, all that _____ is not gold. For some residents of Beijing, the site of Olympic 2008, the impact of winning the bid cuts deep and far into their personal lives. The capital is expecting to pour billions of dollars into sports facilities and related upgrades _____ roads, public transport, landscaping and sanitation. For the bustling city of bicycles and traffic jams tucked among imperial relics, the Olympics is an opportunity for urban renewal.

- 1) reproves, represents, reprieves, reprehends
- 2) jam, benefits, barriers, connection
- 3) efflux, afflux, reflux, influx
- 4) flutters, loiters, glitters, jitters
- 5) by far, as for, such as, in favor of

Answer: represents, barriers, influx, glitters, such as

Organic milk and dairy products may contain higher levels of omega-3 fatty acids and slightly higher amounts of iron, vitamin E, and some carotenoids. _____, organic milk may contain less selenium and iodine than non-organic milk. These are two minerals that are essential for health. A review of 67 studies found that organic meat contained higher levels of omega-3 fatty acids and slightly lower levels of saturated fats than conventional meat. A higher intake of omega-3 fatty acids has been _____ with many health benefits, including a reduced risk of heart disease. However, several other studies found no differences. While several studies find that organic foods can have significant positive outcomes, others have found insufficient evidence to recommend organic over conventional. An observational study comparing the nutrient intakes of nearly 4,000 adults consuming either organic or conventional vegetables found _____ results. Although a slightly higher intake of certain nutrients was seen in the organic group, this was most likely _____ higher overall vegetable consumption.

- 1) Therefore, Additionally, However, Moreover

- 2) fascinated, associated, appreciated, dissociated
- 3) conflicting, contributing, conditioning, convincing
- 4) such as, due to, along with, no doubt

Answer: However, associated, conflicting, due to

While there are many project management techniques and tools, there are considerable _____ in applying these methods to different projects. For example, a large, complex, multiyear construction project is very different from a 12-month ISO 9001 quality management system implementation or a three-month process improvement and machinery upgrade project. While the basic principles apply in all situations, the project management methodology must be _____ to fit the benefit-to-cost ratio for each situation. Managers often fail to use project planning tools and techniques appropriate to the anticipated outcomes of the project and the resources available. Aspiring project managers may utilize a wide _____ of project management tutorials and other resources, including college-based, association-based, and consultant-sponsored classes and courses. The Project Management Institute offers certification as a Project Management Professional (PMP) to those who pass a rigorous exam and _____ their proficiency by planning and managing a successful project.

- 1) difficulties, deviations, conflicts, differences
- 2) scaled, abjured, obfuscated, beguiled
- 3) sort, category, range, classification
- 4) Sequester, disprove, remonstrate, demonstrate

Answer: differences, scaled, range, demonstrate

When an iceberg reaches warm waters, the new climate attacks it from all sides. On the iceberg surface, warm air melts snow and ice into pools called melt ponds that can trickle _____ the iceberg and widen cracks. At the same time, warm water laps at the iceberg edges, melting the ice and causing chunks of ice to break off. On the underside, warmer waters melt the iceberg from the bottom up. Icebergs _____ a danger to ships _____ the North Atlantic and the waters around Antarctica. After the Titanic sank near Newfoundland in 1912, the United States and twelve other countries formed the International Ice Patrol to warn ships of icebergs in the North Atlantic. The International Ice Patrol uses airplanes and radars to track icebergs that float into major shipping lanes. The U.S. National Ice Center uses satellite data to _____ icebergs near Antarctica. However, it only tracks icebergs larger than 500 square meters (5,400 square feet).

- 1) form, under, through, over
- 2) depose, pose, dispose, compose
- 3) rescinding, presaging, traversing, conversing
- 4) monitor, maintain, modify, produce

Answer: through, pose, traversing, monitor

The love of beauty is an essential part of all healthy human nature. It is a moral _____. The absence of it is not an assured ground of condemnation, but the _____ of it is an invariable sign of goodness of heart. In proportion

to the degree in which it is felt will probably be the degree in which nobleness and beauty of character will be _____. Natural beauty is an all-pervading presence. The universe is its temple. It unfolds into the numberless flowers of spring. It waves in the branches of trees and the green blades of grass. It _____ from the hues of the shell and the precious stone. And not only these minute objects but the oceans, the mountains, the clouds, the stars, the rising and the setting sun — all _____ with beauty.

1) quality, quantity, qualification, qualifier

2) absence, presence, contrary, opposite

3) entertained, attained, detained, sustained

4) overflow, overfeed, overfly, overflow

Answer: quality, presence, attained, gleams, overflow

To be really happy and really safe, one _____ to have at least two or three hobbies, and they must all be real. It is no use starting late in life to say: "I will take an interest in this or that." Such an attempt only _____ the strain of mental effort. A man may _____ great knowledge of topics unconnected with his daily work, and yet hardly get any benefit or relief. It is no use doing what you like; you have got to like what you do. _____ speaking, human being may be divided into three classes: those who are toiled to death, those who are worried to death, and those who are bored to death.

1) ought, should, may, believes

2) alleviates, aggravates, aggregates, agglomerates

3) acquire, deny, lack, know

4) kindly, Broadly, Grandly, Sadly

Answer: ought, aggravates, acquire, Broadly

Although it symbolizes a bright idea, the traditional incandescent light bulb is a dud. It wastes huge _____ of electricity, radiating 95% of the energy it _____ as heat rather than light. Its life is also relatively short, culminating in a dull pop as its filament fractures. Now a team of researchers has _____ a light bulb that is not only much more energy-efficient -- it is also expected to _____ longer than the devices into which it is inserted. Moreover, the lamp could be used for rear-projection televisions as well as general illumination. The trick to a longer life, for light bulbs at least, is to _____ that the lamp has no electrodes. Although electrodes are undeniably convenient or plugging bulbs directly into the lighting system, they are also the main reason why lamps fail.

1) counts, rations, amounts, proportions

2) consumes, lasts, invents, pursues

3) involved, devised, excluded, revised

4) carry, last, use, take

5) assure, ensure, ascertain, ensue

Answer: amounts, consumes, devised, last, ensure

It is well that young men should begin at the beginning and occupy the most subordinate positions. Many of the leading businessmen of Pittsburgh had a serious responsibility thrust upon them at the very _____ of their career. They were introduced to the broom, and spent the first hours of their business lives sweeping out the office. I notice we have janitors now in offices, and our young men unfortunately miss that _____ branch of business education. But if by chance the professional sweeper is _____ any morning, the boy who has the _____ of the future partner in him will not hesitate to try his hand at the broom. It does not hurt the newest comer to sweep out the office if necessary. I was one of those sweepers myself.

- 1) limitation, threshold, terminal, midpoint
- 2) voluntary, sanitary, sedentary, salutary
- 3) assent, consent, absent, present
- 4) genius, radius, eyesight, faith

Answer: threshold, salutary, absent, genius

The father's role in society has changed during the last 20 years, with a trend towards acceptance of a nurturant father who is more involved in child care responsibilities. With the birth of a child, father-child issues may _____ from the family in which the father was born and raised. The healthy, _____ father is able to put these issues in perspective and resolve them. Thus, bitterness, hostility, or _____ from the family of origin does not spill into the immediate family. While fathers contribute to their own psychosocial development, they also have an important impact on their children from infancy _____ adulthood. One researcher concludes that fathers who are more involved in infant care giving have infants with greater cognitive development at one year of age than fathers who are less involved in infant care giving. Infants can _____ fathers from other adults early.

- 1) resurface, restrict, restore, resuscitate
- 2) adjusted, mistrusted, entrusted, maladjusted
- 3) increment, abatement, resentment, alignment
- 4) though, besides, above, over
- 5) forgive, distinguish, forget, respect

Answer: resurface, adjusted, resentment, through, distinguish

Fluid intelligence is the type of intelligence that has to do with short-term memory and the ability to think quickly, logically, and abstractly in _____ to solve new problems. It _____ in young adulthood, levels out for a period of time, and then generally starts to slowly _____ as we age. But _____ aging is inevitable, scientists are finding out that certain changes in brain function may not be.

- 1) order, attempt, return, step
- 2) peaks, delays, fades, continues
- 3) plateau, soar, rocket, decline
- 4) because, while, with, why

Answer: order, peaks, decline, while

Reading Fill in the blanks

Plastic waste accumulating in the global ocean is an increasingly threatening environmental issue. Although research on the topic has attracted _____ attention in recent years, major knowledge _____ remain. A _____ scientific challenge at present is to determine the mass of plastic present on coastlines, the ocean surface and the deep ocean, as well as to quantify the plastic _____ between these compartments.

Option: surgeries, gaps, structures, considerable, promising, crucial. Fluxes

Answer: considerable, gaps, crucial, fluxes

Nigerian law libraries, despite the intervention of Council of Legal education, are still not endowed with every resource needed to satisfy information needs of _____ users. This is _____ with the fact that Nigerian universities are still struggling to manage _____ funds normally received from government. Resource sharing is _____ to be a solution.

Option: diverse, supposed, coupled, scientific, insufficient, sponsored, continued

Answer: diverse, coupled, insufficient, supposed

The connection between art and life is a complex one. It creates new and complex actions depending on the _____ form of the work of art, which has the _____ potential to influence and educate people in the long _____. Art releases _____ that may not be expressed in everyday life. And is an important tool in communication among different cultures.

Option: emotions, run, interests, aesthetic, distance, pedagogical, limited

Answer: aesthetic, pedagogical, run, emotions

In human communication, the communicators involved in the interaction have an _____ to show politeness to each other for a successful _____. Non-observance of politeness in a communicative act has the _____ to infringe upon to public self-image of the addressees. When people become aware of the importance of the _____ of their interlocutors, they tend to avoid embarrassments and incendiary language.

Option: potential, courage, implication, obligation, needs, conversation, business

Answer: obligation, conversation, potential, needs

In African society, the gender _____ and patriarchal construct remain the bane across virtually all spheres of life in the society. There is a greater level of gender sensitivity to the extent that boys are _____ up to see themselves as _____ sex to girls, while the females are trained to see themselves as weaker sex or even as appendages to the men folk.

Option: turned, peculiarities, brought, equality, superior, opposite

Answer: peculiarities, brought, superior

Journalists and their media outlets exist to publish stories. The constitution offers press freedom, but the government has been _____ court cases to try to _____ such freedom, especially on matters that _____ on national security. Freedom to publish is not the same as 'the people's right to know', which usually complicates the aspect of journalists' right to publish stories on matters. _____ national security.

Option: concerning, sympathize, concerned, touch, look, curtail, battling

Answer: battling, curtail, touch, concerning

Two weeks before Christmas in 1978, the cargo ship MS Munchen _____ a fierce storm in the North Atlantic. Although the captain couldn't evade it, the _____ waves and winds should have posed no _____ to the 261-meter-long ship. The West German vessel and its 28-crew crew vanished, leaving behind just four lifeboats, three shipping containers, and a handful of _____ devices.

Option: compassion, weathered, forecasted, encountered, flotation, confronted, threat

Answer: encountered, forecasted, threat, flotation

Adolescence is a time of rapid changes in both _____ growth and development and cognitive and emotional _____. There rightly has been much emphasis on early childhood nutrition. Adolescence is an additional important _____ of risks and opportunities for healthy nutrition with lifelong and intergenerational consequences. The current generation of adolescents is growing up at a time of _____ change.

Option: physical, step, unprecedented, phase, natural, capacities, qualities

Answer: physical, capacities, phase, unprecedented

Mathematicians and computer scientists had an exciting year of _____ in set theory, topology and artificial intelligence, in addition to preserving _____ knowledge old questions. They made new progress on fundamental questions in the field. And saw the links between mathematics and other disciplines grow. But many results were only partial answer, and some promising _____ of exploration turned out to be dead ends. Leaving work for future _____.

Option: breakthroughs, trending, avenues, generations, difficulties, fading, branches

Answer: breakthroughs, fading, avenues, generations

To raise _____ of the prevalence of biased datasets, researchers are requesting demographics of population cohorts, including _____ and race, to be reported in research papers. Even if these data are not available, the implications of the absence of representation must be discussed, including the future work needed to ensure that _____ of the reported research reach the widest _____ of people and do not exacerbate existing _____.

Option: poverty, range, boundary, ethnicity, benefits, awareness, knowledge, inequalities

Answer: awareness, ethnicity, benefits, range, inequalities

Fluids can be roughly divided into two _____ : regular ones and weird ones. Regular ones, like water and alcohol, act more or less as expected when _____ through pipes or stirred with a spoon, Lurking among the weird ones—which include _____ such as paint, honey and blood—are a vast variety of behavioural enigmas that have _____ researchers over the centuries.

Option: appealed, exemplified, baffled, categories, flowed, pumped, substances

Answer: categories, pumped, substances, baffled

To look back in time at the cosmos' infancy and _____ the first flicker on, you must first grind a mirror as big as a house, Its surface must be so _____ that it can collect and focus the _____ light coming from the farthest galaxies in the sky.

Option: integrated, smooth, turn, faint, favourable, witness

Answer: witness, smooth, faint

Whenever you search a location using Google Maps, you can expect that to be marked off for future _____. But it isn't just the places you're planning on visiting that Google remembers. If you have Google Maps _____ on your phone or mobile device, the chances are your privacy settings _____ it to track store your every step.

Option: Participation, promised, permit, receive, installed, reference

Answer: reference, installed, permit

The food we eat every day keeps us alive, but it can also _____ big health and environmental costs — heart disease, carbon emissions, soil _____, and more. A recent study published in Nature Food finds that small _____ in the food choices Americans make could have outsized benefits to both health and planet.

Option: incur, degradation, variation, shifts, conservation, prove

Answer: incur, degradation, shifts

An interdisciplinary team of scientists have _____ a project with the goal of decoding and communicating with sperm whales. The team wants to decode the clicking sounds sperm whales use to communicate with one another. To _____ it off, the researchers plan on leveraging natural-language processing, a sub-field of AI _____ on processing written and spoken language.

Option: pull, launched, issued, focused, take, depended

Answer: launched, pull, focused

As the climate _____, it's putting more heat into the atmosphere and creating more energy that can _____ tornadoes. Large December tornadoes are rare because December tends to be cool — but the U.S. is

experiencing unusual warmth this year, including over the Gulf of Mexico, where the heat that fuels tornado-forming thunderstorms _____.

Option: gather, disseminates, feed, originates, warms, worsens

Answer: warms, feed, originates

COVID-19 vaccines train our immune systems to make antibodies using synthetic _____ of the virus' spike protein. If a vaccinated person later encounters the virus, the antibodies recognize it and bind to the spike protein to prevent _____. The first dose of an mRNA vaccine prepares the cells to make antibodies, and the second dose matures and _____ those antibodies to bind even more strongly to the spike protein.

Option: infection, versions, enhances, editions, inflammation, urges

Answer: versions, infection, enhances

Online therapy can't always replace traditional face-to-face counseling, but it has been shown to be an effective _____, especially for treating commonplace mental health issues like _____ and anxiety. If _____ is an issue, online therapy is usually more affordable and cost-effective than traditional therapy, starting with the fact that therapists working online can save on overhead _____ like rent and travel, passing those savings onto their patients.

Option: infection, cost, expenses, spending, alternative, depression, age

Answer: alternative, depression, cost, expenses

A lack of confidence is often _____ to something we call shyness. But beneath shyness, there may lie something more surprising, _____ and poignant. We suffer from a suspicion of ourselves that gives us a sense that other people will always have _____ reasons to dislike us, to think ill of us, to _____ our motives and to mock us.

Option: pernicious, question, tremendous, pulled up, despise, sufficient, put down

Answer: put down, pernicious, sufficient, question

The suspicion that life is constantly painful and anxious is one that we largely have to _____ in a very lonely way in the philosophies of the West. In those of the East, pessimism is ennobled and _____ centre stage: we are _____ to feel weary and amply _____ every once in a while.

Option: forbidden, carry, forms, bear, takes, dissatisfied, permitted

Answer: bear, takes, permitted, dissatisfied

Case studies on the deformation of serpentinite tunnels are not hit in the Web of Science database, _____ severe deformation has been _____ at soft rock tunnels worldwide, and many papers have been published. The lack

of publication may indicate that tunnel excavation in serpentinite is difficult, and thus excavation without professional guidance should be _____.

Option: avoided, although, experienced, experimented, despite, escaped

Answer: although, experienced, avoided

With the aim of liberalizing and de-monopolizing the energy market, and the natural gas market long with it, special companies _____ with energy were introduced, These companies _____ the job of traders and suppliers of individual market categories with the usage of the aforementioned technological infrastructure. In such conditions, it is necessary to _____ special rules of behavior for all the _____ in the energy sector.

Option: participants, define, dealing, confine, perform, tackling, reform

Answer: dealing, perform, define, participants

Police fired tear gas and arrested more than 5,000 passively resisting protesters Friday in an _____ to break up the largest antinuclear demonstration ever _____ in the United States. More than 135,000 demonstrators confronted police on the construction site of a 1,000-megawatt nuclear power plant _____ to provide power to most of southern New Hampshire. Organizers of the huge demonstration said, the protest was _____ despite the police actions. More demonstrators were arriving to keep up the pressure on state authorities to cancel the project.

Option: staged, initiate, acted, ceased, attempt, continuing, scheduled

Answer: attempt, staged, scheduled, continuing

Integration of blockchain systems into industrial applications show promise in increasing security, trust, and _____ along the value-chain during product and process tracking. However, current solutions suffer performance _____, or often disregard legacy devices still in operation. We _____ a block chain system built upon an IoT architecture that is secure, modular, easily scalable, and deployable for fast certification of manufacturing data, _____ with current industrial landscapes.

Option: accountable, awareness, transparency, deficiencies, compatible, affirm

Answer: transparency, deficiencies, propose, compatible

Due to the lack of living space and the increase in population, there has been a construction _____ in the underground space to improve the quality of human life. In recent decades, _____ tunnelling techniques, particularly tunnel boring machines, have been extensively _____ to tunnel construction due to their high excavation _____ and low total cost for the excavation of long tunnels.

Option: ration, rate, prosperity, mechanized, applied, boom, expected

Answer: boom, mechanized, applied, rate

Conflict driven large-scale displacement (both internal and external) is among the main challenges _____ sub-Saharan Africa today. According to the United Nations High Commissioner for Refugees, more than 2.3 million South

Sudanese _____ from their homes have _____ to neighbouring countries, with 82% of them being women or children. These refugees face _____ social, health, and livelihood challenges.

Option: faced, uprooted, enough, tremendous, facing, fled, deserted

Answer: facing, uprooted, fled, tremendous

Greenland was first _____ by Vikings in 985 by a group of settlers in 14 ships led by Erik the Red, who had been _____ from neighbouring Iceland for manslaughter. Erik and his followers settled across southern Greenland, where they and their _____ hunted for seals, grazed livestock, built churches and traded walrus ivory with European mainlanders.

Option: ancestors, defeated, colonized, descendants, banished, dispelled

Answer: colonized, banished, descendants

Riverbank erosion is an inevitable natural _____ of any floodplain region. Bank erosion involves the mechanism of _____ bank materials from river banks by the fluvial actions like channel head pressure, velocity, discharge etc. The erosion takes place when the shear stress exceeds and the _____ support is collapsed.

Option: phenomenon, event, removal, basal, migration, additional

Answer: phenomenon, removal, basal

In _____, biodegradation is simple — large or complex materials are biologically converted into smaller, simpler, ideally non-toxic _____ that can be recycled in the biosphere, ideally without human _____. However, the _____ involved in biological degradation are technically complex and the conditions under which biodegradation _____ in large scale waste management environments generally do not match those found in purely natural environments, such as soil and seawater.

Option: convention, concurs, compounds, sense, intervention, concept, occurs, mechanisms

Answer: concept, compounds, intervention, mechanisms, occurs

Virginia's Tangier Island is rapidly disappearing. Rising sea levels are _____ erosion and flooding, and could make the speck of land in the Chesapeake Bay _____ within the next few decades. For years, island residents, policy makers and others have _____ whether to attempt to save the island or relocate its small community _____. But time to decide is running out.

Option: elsewhere, debated, exacerbating, exciting, uninhabitable habitable, probated

Answer: exacerbating, uninhabitable, debated, elsewhere

The _____ heat and pressure of the first atomic bomb test, in 1945, left _____ a glassy substance known as trinitities — and something even stranger. Within the trinitities, scientists discovered, is a rare form of matter called a quasicrystal. Quasicrystals have an _____ structure like a normal crystal, but that structure doesn't repeat.

_____ , these crystals had been found only in meteorites or made in the lab.

Option: Tremendously, pretense, Previously, orderly, intense, improperly, behind

Answer: intense, behind, orderly, Previously

A year ago, vaccine drives against COVID-19 were just beginning. Now, more than 4.4 billion people have had one or more _____ — about 56% of the world population. The vaccination of so many in such a short _____ of time, so soon after the _____ rapid development of the vaccines, has saved huge numbers of lives and is a _____ for science and research.

Option: triumph, unparalleled, dispose, space, duration, dose, struggle

Answer: dose, space, unparalleled, triumph

Usually, we use pressure _____ on the sea floor to tell us when a tsunami is moving over the sensors. But these pressure changes only tell us there is a tsunami after it has passed the sensors. A team _____ used a set of sensors in the Pacific Ocean to measure magnetic field and sea level change _____. They found that the tsunamis were indeed _____ by changes in the magnetic field in the water.

Option: hardly, commercially, gauges, simultaneously, instead, acceded, preceded

Answer: gauges, instead, simultaneously, preceded

In a closed-system economy, gross national product is _____ as a 'cost of the system'. The Leontiev model relating the components of society's _____ to resource use has been extended to make possible _____ estimates of 'social entropy'. This kind of work suggests a _____ for minimizing social entropy and real cost in a more advanced economy and technology.

Option: discarded, rationalism, regarded, qualified, rationale, quantitative, demand

Answer: regarded, demand, quantitative, rationale

NASA's Perseverance rover touched down on the red planet, _____ a new era of Mars exploration. After sticking its landing, Perseverance _____ a small helicopter that completed the first _____ flight on another world. After an _____ failed attempt, the rover drilled and stored its first of many planned samples of Martian rock, which future space missions will _____ so scientists can analyze them for signs of past life.

Option: aggrieve, powered, retrieve, essential, initial, deployed, kicking off, developed, dropping out

Answer: kicking off, deployed, powered, initial, retrieve

A chemical that is sometimes _____ from human skin, breath and faeces has no _____ smell, but it appears to influence people's behavior, with men becoming calmer and women becoming more _____. Although scientists have yet to _____ when or under what conditions people and other mammals release hexadecanal, it seems clear that humans are 'communicating' with each other _____ through their body odor.

Option: aggressive, committed, subconsciously, determine, progressive, detectable, consciously, undermine, emitted

Answer: emitted, detectable, aggressive, determine, subconsciously

The new spending legislation would _____ more than \$550 billion to energy and climate program. This includes an _____ \$320 billion in tax reductions over a decade for businesses and individuals who invest in clean-energy technologies such as wind, solar, electric vehicles and nuclear power. The legislation would build on clean-energy _____ in the bipartisan infrastructure package, which includes \$66 billion to _____ rail networks.

Option: estimated, domesticate, modernize, transfusions, provisions, estimating, allocate

Answer: allocate, estimated, provisions, modernize

In a bone-chilling event two weeks ago, astronomers caught a star _____ a nearby black hole, or perhaps a neutron star, and then getting eaten by its _____ meal. The _____ spectacular explosion left behind a black hole. Astronomers had _____ that such a star-eat-star supernova was possible, but had never observed one.

Option: slowing, resulting, opponent, theorized, popularized, own, swallowing

Answer: swallowing, own, resulting, theorized

Researchers say they have been _____ of their finances and academic freedoms and do not feel valued by the new government. Many continue to fear being _____ for their international connections, _____ or gender -- or because they have been critical of the government -- and some say they have been threatened with death or _____ by the Taliban.

Option: persecuted, stripped, retribution, tripped, personalized, ethnicity, contribution

Answer: stripped, persecuted, ethnicity, retribution

Sirhan, the _____ of US Senator Robert F. Kennedy, was granted _____ on Friday, after two of Kennedy 's sons spoke in favor of Sirhan's release, and lawyers _____ to argue that he should stay in jail. The decision was a major victory for the 77-year-old man, who spent 53 years in prison; however, it doesn't _____ he is free. Douglas Kennedy, who was a toddler when his father was gunned down in 1968, said he was moved to tears by Sirhan's _____, and he should be released if he's not a threat to others.

Option: guarantee, prize, valued, remorse, deputy, assassin, declined, parole, matter, dignity

Answer: assassin, parole, declined, guarantee, remorse

Sleep _____ is a global issue in all the major cities around the world where the amount of sleep is _____ over decades. Now, the decrease is growing with the _____ of the COVID-19 pandemic. Stress plays a major role in how we sleep. People are _____ to have some kind of routines, and many people lost them during the pandemic and especially during lockdowns. People woke up and went to sleep at _____ times, they ate at odd times, and all of that definitely affected their biological rhythms.

Option: forced, meant, marvellous, treatment, decreasing, abundance, deprivation, odd, onslaught, mounting

Answer: deprivation, decreasing, onslaught, meant, odd

Charlie Watts, the London-born Rolling Stones drummer who _____ the band's sound for nearly 60 years, died at the age of 80. Watts is _____ as one of the greatest and most _____ rock drummers of all time. He was a member of the Rolling Stones since January 1963, when he joined Mick Jagger, Keith Richards, and Brian Jones in their _____ group. Watts helped them become one of the bands who took rock'n'roll to the spawning point in the 1960s with classics like Satisfaction or Sympathy of the Devil.

Option: ancient, stylish, orthodox regarded, fledgling, discerned, simulated, propelled

Answer: propelled, regarded, stylish, fledgling

A koala rode 16 kilometres near Adelaide, Australia, inside an _____ for a car wheel. The driver did not _____ until he stopped and heard the animal making noise. A woman with an animal rescue organization said that it was incredible, but the koala was in _____. The organization took her straight to the vet. People named the koala Kelli, after one of her _____, and put the koala back into the wild. She quickly climbed up a tree and went to sleep. Koalas are a _____ species as there are less than 100,000 of them in the wild.

Option: vulnerable, observe, incumbency, favourable, shock, spite, arch, predators, rescuers, care

Answer: arch, observe, shock, rescuers, vulnerable

REIQ Gold Coast Zone chairman John Newlands said some southern suburbs were shaking off a poor reputation and _____ gentrification as wealthier residents moved in and displaced people from lower-income groups. "I think suburbs such as Miami have become _____ with people who previously would not have gone there," he said. "They have come into their own with new restaurants and markets _____ which has also made them more attractive." Developers have _____ on to the trend as well, with Sunland launching a \$62 million development, Magnoli Residences, in Palm Beach.

Option: collected, decreasing, experiencing, opening, cottoned, overcoming, popular, rigid

Answer: experiencing, popular, opening, cottoned

Marriage is a big step _____ anyone's life and there is an argument to be made _____ getting married too early. As any newlywed couple knows, there is a huge amount of financial pressure associated _____ marriage. Firstly, the wedding reception and honeymoon cost you an arm and a leg. Then there's the matter of home loans, rent and energy bills. If you're looking to start a family, your child's education is another thing you need to save up _____. Teenagers should probably find a proper job before deciding to tie the _____.

Option: tangle, for, cost, throughout, knot, with, in, against

Answer: in, against, with, for, knot

Egg-eating snakes are a small group of snakes whose _____ consists only of eggs. Some eat only small eggs, which they have to swallow _____, as the snake has no teeth. Instead, some other snakes eat bigger eggs, but it requires special _____. These snakes have spines that stick _____ from the backbone. The spines crack the egg _____ as it passes through the throat.

Option: saliva, part, open, taste, diet, whole, treatment, out

Answer: diet, whole, treatment, out, open

For all his fame and Arab celebration, William Shakespeare remains a(n) _____ figure with regards to personal history. There are just two primary _____ for information on the Bard: his works, and various legal and _____ documents that have survived from Elizabethan times. Naturally, there are many _____ in this body of information, which tells us little about Shakespeare the man.

Option: entitlements, mysterious, ubiquitous, church, gaps, sources

Answer: mysterious, sources, church, gaps

An individual's propensity to take risks is influenced by their own experience and that of others. The key _____ in risk taking is the balancing of perceptions of the risk and the possible rewards, and this balance may be a _____ of an individual's particular type of _____.

Option: utility, reflection, reason, personality, relation, feature

Answer: feature, reflection, personality

There are a number of substances (toxic as well as non-toxic) which are being added to the environment by pollution-caused _____. These are, in fact, the undesirable consequences of modern civilization. These substances, which are continuously going into air, water and soil, bring about undesirable _____ in physical, chemical and biological _____ of our environment and the life _____ of animals and plants.

Option: possessions, changes, events, aspects, processes, intentions

Answer: events, changes, aspect, processes

The Silk Road has often been _____ for the spread of infectious diseases in the past between East Asia, the Middle East and Europe. While such a hypothesis seems _____, there is actually very little _____ evidence to prove that diseases were transmitted by early travellers moving along its _____ branches.

Option: claimed, concrete, incorrect, overrated, various, blamed, plausible, individual

Answer: blamed, plausible, concrete, various

Dams are huge man-made structures that act as _____ on a river. Today, the main reason people build dams is to produce electricity. They are also built to restrict and control the flow of water in a river. Throughout history, dams have been used to prevent flooding and to irrigate (water) farmland. Dams supply about a sixth of the world's electricity and they significantly reduce the risk of floods and _____. They also make water easier to access, especially in desert like areas, where water is in low supply. There are however, some negative effects of damming rivers. Many people's homes are knocked down to make space for the dam, and flooding can _____ in the reservoir, which is the area behind the dam where water _____. This can cause valuable farmland to become submerged under the lakes.

Option: barriers, droughts, occur, deposits, overlaps, blizzards, collects, disappear

Answer: barriers, droughts, occur, collects

Electric eels are born to shock. Thanks to cells called electrocytes which, stacked like batteries, make up 80% of their bodies, these cunning South American _____ can deliver debilitating blows of up to 600 volts to their prey. But they've harnessed their electricity to pack even bigger punches. Last year, Vanderbilt University biologist Kenneth Catania revealed electric eels bring their positively charged head and negatively charged _____ closer together to generate a more powerful _____.

Option: objects, current, limb, hunters, tail, engine

Answer: hunter, tail, current

Social reforms are normally _____ as a result of statistical analyses of factors such as crime rates and poverty levels etc. Large-scale population can result from projections devised by statisticians. Manufacturers can provide better products at lower costs by _____ statistical control tools, _____ as control charts. Diseases are controlled through analyses designed to anticipate epidemics. Endangered species of fish and other wildlife are protected through regulations and laws that react to statistical estimates of changing population sizes. And, _____ statistical analysis of fatality rates, legislators can better justify laws, such as those governing air pollution, auto inspections, seat belt and airbag use, and drunk driving.

Option: through, using, initiated, changed, though, entailing, such

Answer: initiated, using, such, through

There are many different ways to help other people. Perhaps the most common of these involves giving others _____ help. In our society, there are many individuals who spontaneously help others in this way. Additionally, there are others who belong to organisations which have been set up to provide help to specific groups, such as the elderly, the disabled, and those with serious physical or _____ health problems. Most importantly, there are many _____, such as nursing, occupational therapy and social work, which involve professionals who are trained to provide or organise practical help for others. And, _____ helping other people in a practical way, many volunteer and professional helpers also make use of some counselling skills. These skills can be very useful in enabling people to feel better as described in this book and our book, *Counselling Skills in Everyday Life*. However, it needs to be _____ that just being able to make use of some counselling skills does not qualify a person as a counsellor.

Option: while, practical, despite, recognized, pompous, factors, denied, occupations, mental

Answer: practical, mental, occupations, while, recognized

London's National Portrait Gallery is currently celebrating the fifty-year _____ of photographer Sandra Lousada. The twenty-one portraits on display depict key _____ in literature, film and fashion from the early 1960s. Subsequent to the acquisition of forty portraits by Lousada, the display at The National Portrait Gallery highlights shots taken between 1960 and 1964, many of which feature in Lousada's book *Public Faces Private Places* (2008). Formal commissioned portraits are shown alongside behind-the-scenes photographs taken on films _____ and unguarded portraits of sitters captured at home.

Option: sets, elements, status, career, figures

Answer: career, figures, sets

British doctors have been _____ to use simple language when communicating with their patients, says the BBC. The Academy of Medical Royal Colleges says very often correspondence contains complex medical jargon rather than plain and simple English. Using of phrase "twice daily" to explain the _____ of a medicine is better than Latin abbreviation "bd". The Please Write to Me initiative is aimed basically at doctors working in _____ clinics, although it is the best practice for all clinicians who need to write clinical letters and they are being asked to write directly to patients, rather than sending them a copy of a letter _____ to their GP. The Academy suggests any medical words should be _____ in plain English.

Option: covered, outpatient, condemned, penned, urged, supposed, dosing, translated, dubbing

Answer: urged, dosing, outpatient, penned, translated

In the past before the discovery of aeroplanes, people used to travel using hot air balloons. Although it was not a very safe option in the beginning, it was _____ means of transport. There were no roads or quickest means of travel for people so they took a risk of _____ in the air using this heated air vessel. Helium and hydrogen were used later on as _____ an improvement to the earlier design. The structure was very aerodynamic and it works on the principle of displacement of air. Many kinds of _____ were used in the beginning, such as paper, plastic and even animal skin. The discovery of hot air balloon was _____ as people were traditionally used to flying sky lantern. Nowadays, the technology is so advanced and it is still used in the _____ areas where there are no roads built yet.

Option: efficient, traversing, earlier, materials, accidental, remote, matter

Answer: efficient, traversing, materials, accidental, remote

Many people like to learn a new language. _____ as it sounds, to achieve the proficiency it can take a lot of efforts. There are multiple stages before a person can be said to be a language expert. First of all, the person should set a few _____ goals and narrow the focus on the most basic part. Every language uses grammar, which creates its skeleton. If a person learns the grammar, it's half job done. After that, learning to use the right words is very _____, because a word can be used in a variety of connotations at different places. Having a pal or a friend who speaks that language makes the task easier, so that errors could be _____ instantly. When you understand at least 40% of the words and sentences, listening to the programs and news in that language can also help immensely. All in all, it's about the _____ and efforts taken with the right techniques.

Option: important, short-term, dedication, Exciting, rectified, copied, Facetious

Answer: Exciting, short-term, important, rectified, dedication

Underground houses have many advantages over conventional housing. Unlike conventional homes, they can be built on _____ surfaces and can maximize space in small areas by going below the surface. In addition, the materials excavated in construction can be used in the building process. Underground houses have less surface area so fewer building materials are used, and _____ costs are lower. They are also wind, fire, and earthquake resistant, providing a secure and safe environment in extreme weather. One of the greatest benefits of underground living is

energy _____. The earth's subsurface temperature remains stable, so underground dwellings benefit from geothermal mass and heat exchange, staying cool in the summer and warm in the winter. This saves around 80% in energy costs. By _____ solar design this energy bill can be _____ to zero, providing hot water and heat to the home all year round.

Option: maintenance, reduced, forced, flat, steep, replacing, transportation, incorporating, scarcity, efficiency

Answer: steep, maintenance, efficiency, incorporating, reduced

To qualify as a conservancy, a committee must define the conservancy's boundary, elect a _____ conservancy committee, negotiate a legal constitution, prove the committee's ability to _____ funds, and produce an acceptable plan for _____ distribution of wildlife-related benefits. Once approved, registered conservancies acquire the _____ to a sustainable wildlife _____, set by the ministry.

Option: equitable, consecutive, representative, deposit, rights, quotation, infringements, quota, irresistible, manage

Answer: representative, manage, equitable, rights, quota

Write From Dictation

1.	The artists other than politicians earned credits of their own roles as critics.
2.	The cafeteria features sandwiches, salads, soup, fish and chicken.
3.	The coffee house has a special student discount throughout the week.
4.	The coffee house menu features coffee, sandwiches and toast.
5.	The commissioner will portion the funds among all the sovereignties.
6.	The course helps students to improve their pronunciation skills.
7.	The designers will complete the plan later today.
8.	The early works of this research were more experimental.
9.	The early works were more philosophical rather than experimental.
10.	The election of president is held once every four years.
11.	The extent of advertising for children is open to debate.
12.	The faculty staff are very approachable, helpful and extremely friendly.
13.	The first assignment is due on the fourteenth of September.
14.	The history of the university is a long and interesting one.
15.	The island is located at the south end of the bay.
16.	The key findings seemed to contradict our initial hypothesis.
17.	The leading companies changed their policies after the reports were released.
18.	The library holds a substantial collection of materials on the economic history.
19.	The massive accumulation of data was converted into a communicable argument.
20.	The most important details in this argument are missing.
21.	The paper challenged many previously accepted theories.
22.	The railway makes long distance travel possible for everyone.
23.	The results of the study underscored the discoveries from early detections.
24.	The school's summer programs help students to accelerate their studies.

25.	The slide shows that there has been a minimal growth.
26.	The summer course has been cancelled due to insufficient enrolment.
27.	The synopsis contains the most important information.
28.	The theme of the instrumental work exhibits more of a demure compositional style.
29.	The theme of the instrumental work exhibits more of a demure, compositional style.
30.	The thief visited homes of several people every day.
31.	The university library has most of the necessary books.
32.	There is a clear need for further research in this field.
33.	There is a need for constructive dialogues between leaders.
34.	There is clearly a need for further research in this field.
35.	There is not enough evidence to support this recommendation.
36.	There was no correlation between drug used and cure rates.
37.	This means we will have so many troubles on the lam.
38.	This slide shows that there has been a minimal growth.
39.	This software company designs and creates new products.
40.	Those seeking formal extension should contact their faculty for information.
41.	Traffic is the main cause of air pollution in many cities.
42.	Traveling by boat on the river is not possible in winter.
43.	Tribes vied with each other to build up the monolithic statues.
44.	We are able to work in a team.
45.	We can work together to achieve the higher educational standards.
46.	We can't consider any increase in our price at this stage.
47.	We were able to contact a number of research subjects.
48.	When workers ask for higher wages, companies often raise their prices.
49.	Years of training is required to become of a medical specialist.
50.	You are required to complete the research paper by next Monday.

51.	You are required to submit your assignment by Friday.
52.	You can contact all your tutors by email.
53.	Students are required to complete the research paper by Monday.
54.	Checking the website if you are looking for discounted textbooks.
55.	Enrolling in a double major can increase your career options.
56.	Fishing is a sport and a means for surviving.
57.	Students are advised that all the lectures today have been cancelled.
58.	Theatre study courses encourage students to exercise creativity.
59.	This course considerably emphasizes on the critical thinking skills.
60.	Tutors should set goals at the start of the class.
61.	Unusual patterns make farming more difficult.
62.	Plant trees in cities.
63.	Covers different aspects of the subject.
64.	Temperature in summer is lower, to the hall.
65.	Archaeologists discover tools and in the ancient time.
66.	Industry experts will discuss job opportunities work.
67.	The university should technology to support learning.
68.	University invest ..new technology designed for learning.
69.	We are looking at introducing new ways engaging.
70.	A good academic paper should be clear.
71.	All Students were instructed to submit their assignments by Friday.
72.	Experts are now able to forecast weather over much longer periods.
73.	Find out how to get sources resources before your research.
74.	Geography is generally divided into two branches of human and physical.
75.	In this language course, we focus on both fluency and accuracy.
76.	Making mistakes is fine, as long as you learn from it.

77.	Many graduates of journalism can get jobs in the communications field.
78.	Read safety instructions before using the equipment during the workshop.
79.	The new paper challenged many previously accepted theories.
80.	The archaeologist's [UK] new discoveries stand out in previously overlooked foundations.
81.	The artists tied of conservative politicians earned their own roles of critics.
82.	The camera can identify eyes and focus on them.
83.	The celebrated theory is still the source of great controversy.
84.	The department has higher than normal proportion of postgraduate students.
85.	The economy is now showing the first sign of recovery.
86.	The professor took a year off to work on her book.
87.	The theme of the instrumental work exhibited more of a demure compositional style.
88.	The toughest part of postgraduate education is funding.
89.	There are different types of governments in the world.
90.	This guy is qualified to lead the groups into the mountain.
91.	Undergraduates may participate in specific stages within the program.
92.	Undergraduates pursue their interests within specific program.
93.	Understanding how to use the library will save your time.
94.	University departments carefully monitor articles and other publications by faculty.
95.	Your application for a research grant has been received.
96.	The history lecture has been moved to the lecture theatre.
97.	Key business partners are often intertwined in expense accounts.
98.	The department has a flight to London in July.
99.	Food has become a political issue in the world.
100.	Children acquire their first language without any conscious effort.
101.	Speed is defined as how quickly an object moves.
102.	Animal and plant cells have a number of structures in common.

103.	Social media is criticized of causing internet addiction.
104.	We hold visiting hours throughout the year for students.
105.	International exchanges formed the important part of our study program.
106.	Scientists were unsure when men left Africa.
107.	The shipwreck of this year ruined some artifacts which were interested by historians.
108.	Renovation works have been undertaken throughout the building.
109.	A series of lectures showed economics have been recorded.
110.	Make sure you've saved all files before turning off the computer.
111.	There is a widely perception that the engineering is for boys.
112.	More graduate training is often needed after the university study is finished.
113.	Some vocational courses of institution are funded by private enterprises.
114.	This book can be borrowed for a maximum of one week.
115.	This essay will argue technology does more good than harm.
116.	Time and distance are used to calculate speed.
117.	Every student has regular meeting with his or her personal tutor.
118.	The new chemistry professor will deliver his first lecture tomorrow.
119.	All of your assignments should be submitted by next Tuesday.
120.	The balance in diet and exercise makes a good health.
121.	The archaeologist's [UK] new discoveries stand out in previously.
122.	Control systems in manufacturing provide a high level of accuracy.
123.	There is no criterion passed for qualified journalists.
124.	The disease that was serious has been now eradicated.
125.	Philosophy contains a lot of logics and reasons to analyse human experience.
126.	Advanced technology will create growth in the economy.
127.	This article covers architecture planning and construction.
128.	In any written assignment, a detailed literature review is very important.

129.	Exotic activities can help students develop more talents.
130.	The resources cited are not enough for this assessment.
131.	The invention of the printing press increases the demand for paper.
132.	Art students often exhibit their work on the university buildings.
133.	The office hours will be changed from next term.
134.	This advanced course requires a basic knowledge of economic theory.
135.	Professors with higher educational standard trained them extremely seriously.
136.	Eating fish twice a week is an accommodation on a health diet.
137.	There are many different styles of business management.
138.	The northern campus car park is located behind the library.
139.	University student should purchase the graduation gown for the commencement.
140.	New media journalism is an interesting area for study.
141.	We are rethinking the solutions for the society.
142.	Plagiarism in a test is very severe.
143.	There is an accounting assessment for finance students.
144.	The lecture will cover the reason of climate change.
145.	In statistics, a detailed lecture of view is very important.
146.	The goal of the company is to get investment.
147.	Practical experiments are essential parts of chemical classes.
148.	You will be tested via quiz and dissertation.
149.	Studying medicine is always with a wide range of opportunities.
150.	The course involves pure and applied mathematics.
151.	New developments in manufacturing are constantly changing the way we live.
152.	The university provides different facilities for students and staff.
153.	Designers need to keep up with the social trend.
154.	We are dealing with the most challenges that we face today.

155.	Most food constructions require large amount of water or fertilizer.
156.	Packages are likely to be used in many computers.
157.	Even simple techniques need to be practiced to become better.
158.	While reconciliation is desirable, the basic underlying issues must first be addressed.
159.	Americans have progressively defined the process of plant growth and reproductive.
160.	We no longer respond to any postal reference requests.
161.	Some of these features are part of the previous research.
162.	That means that we have too many struggling overlaps.
163.	The library holds a substantial collection of economic history.
164.	Supply and demand is one of the most fundamental factors in economics.
165.	The commissioner will collect funds for the authorities.
166.	The commissioner will push funds for the sovereignties.
167.	You have the option to live in college residences or apartments.
168.	Behind the group there is a flat cart drawn by mules.
169.	Tribes vied with each other to build monolithic statues.
170.	Students are instructed to submit their assignment before Monday.
171.	Artists tied with the conservative politicians earned the rows of critiques.
172.	The city's founders created a set of rules that became law.
173.	Biology involves the study of life at all levels.
174.	A party was thrown in a small meeting room.
175.	Students can contact all their tutors by email.
176.	Students must attend the statistical course before entering the engineering workshop.
177.	The art co refers a number of very interesting references.
178.	New media journalism is an interesting area to study.
179.	Farms need to adapt to the changes in climate.
180.	Students have options to select courses during registration.

181.	Children acquire their first language without any effort.
182.	Students initially select from a range of foundation subjects.
183.	The additional cameras have some advantages over traditional form.
184.	Some agricultural crops require a large amount of water and fertilizers.
185.	People have been independent by using phones in everyday life.
186.	The blue whales are the largest mammals ever known to have lived on earth.
187.	The Open days in library reduce in summer.
188.	The skills of a great stage actor would not be taught.
189.	All students should attend ten labs per semester.
190.	Despite their differences, all forms of lives share the same characteristics.
191.	Economic status of early Roman Republic will be examined.
192.	It is really a comprehensive program covering both theory and practice.
193.	The economy is now showing its first signs of recovery.
194.	Rising temperature is a result of climate change.
195.	University department was doing some crucial works on climate change.
196.	The project is divided into four main intersections.
197.	Calculators allow us to add numbers without making mistakes.
198.	The next session of the economy course has been cancelled.
199.	The course will start with a history of the architecture.
200.	Materials and techniques are changing the styles of architecture.
201.	The food crops require a large amount of water and fertilizer.
202.	You will study three courses and four studying modules.
203.	A good abstract shows the key points of a paper.
204.	The department is organizing a trip to London in July.
205.	Rise in sea temperature is a sign of climate change.
206.	The school canteen sells a large variety of water and food.

207.	We are researching on the most significant challenges we are facing today.
208.	History of economics is a trick subject of research.
209.	Urban planning emphasizes on the expansion of the community.
210.	The rest of the material was deposited partway down the catchment.
211.	Philosophy uses a lot of logics and reasoning to analyse human experiences.
212.	The disease that was serious has now been eradicated.
213.	Farmers need to endure the changes of climate.
214.	Imported packages are likely to be used in many computers.
215.	Your ideas are sophisticated in seminars and tutorials.
216.	Philosophy uses the logics and reasons to analyse human and experience.
217.	Art and design is a competitive field to work in.
218.	That means they have so many struggling overlaps.
219.	A visit of design museum is greatly valued.
220.	Field trips are essential parts of most geography courses.
221.	The article illustrates a very large number of very interesting experiments.
222.	I thought it is thrown in a small meeting room.
223.	The artists tied with the conservative politicians earned the roles of critics.
224.	If finance is a cause of concern, scholarships may be available
225.	Fashion trends help to make people's life interesting.
