9TH

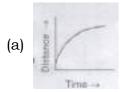
9 SCIENCE

9th Standard Science

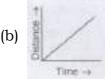
 $909 \times 1 = 909$

1) Choose the correct one

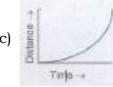
- (a) mm < cm < m < km (b) mm > cm > m > km (c) km < m < cm < mm
- (d) mm > m > cm > km
- 2) Rulers, measuring tapes and metre scales are used to measure
- (a) Mass (b) Weight (c) Time (d) Length
- 3) 1 metric ton is equal to
- (a) 100 quintals (b) 10 quintals (c) 1/10 quintals (d) 1/100 quintals
- 4) Which among the following is not a device to measure mass?
- (a) Spring balance (b) Beam balance (c) Physical balance (d) Digital balance
- 5) Which of the following graph represents uniform motion of a moving particle?



(b)



(c)



(d)



6) The area under velocity – time graph represents

- (a) velocity of the moving object (b) displacement covered by the moving object
- (c) speed of the moving object (d) acceleration of the moving object
- 7) Which one of the following is most likely not a case of uniform circular motion?
- (a) Motion of the Earth around the Sun (b) Motion of a toy train on a circular track
- (c) Motion of a racing car on a circular track.
- (d) Motion of hours hand on the dial of the clock
- 8) The centrifugal force is
- (a) Real force (b) The force of reaction of centripetal force (c) Virtual force
- (d) Directed towards the centre of the circular path.
- 9) When a ray of light passes from one medium to another medium, refraction takes place when angle of incidence is
- (a) 0° (b) 45° (c) 90° (d) 120°
- 10) _____ is used as reflectors in torchlight.
- (a) concave mirror (b) convex mirror (c) plane mirror (d) None of these
- 11) When the reflecting surface is curved outwards the mirror formed will be
- (a) concave mirror (b) convex mirror (c) plane mirror (d) spherical mirror
- 12) When a beam of white light passes through a prism it gets
- (a) Reflected (b) deviated and dispersed (c) only deviated (d) refrected
- 13) The speed of light is maximum in

(a) vacuum (b) glass (c) diamond (d) graphite
14) We can create enlarged, virtual images with
(a) concave mirror (b) convex mirror (c) plane mirror (d) spherical mirror
15) Among the followingis a mixture
(a) Common Salt (b) Juice (c) Carbon dioxide (d) Pure Silver
16) When we mix a drop of ink in water we get a
(a) Heterogeneous Mixture (b) Homogeneous Mixture (c) Compound (d) Suspension
17) has the same properties throughout the sample
(a) Pure substance (b) Mixture (c) Colloid (d) Suspension
18) The separation of denser particles from lighter particles done by rotation at high speed is called
(a) Filtration (b) sedimentation (c) decantation (d) centrifugation
19) is essential to perform separation by solvent extraction method.
(a) Separating funnel (b) centrifuge machine (c) filter paper (d) sieve
20) Among the following the odd pair is
(a) $_8\mathrm{O}^{18},_{17}\mathrm{Cl}^{37}$ (b) $_{18}\mathrm{Ar}^{40},_{7}\mathrm{N}^{14}$ (c) $_{14}\mathrm{Si}^{30},_{15}\mathrm{pd}^{31}$ (d) $_{24}\mathrm{cr}^{54},_{19}\mathrm{K}^{39}$
21) Change in the number of neutrons in an atom changes it to
(a) an ion (b) an isotope (c) an isobar (d) another element
22) The term nucleons refer to
(a) Protons and electrons(b) only Neutrons(c) electrons and neutrons(d) Protons and neutrons
23) The number of protons, neutrons and electrons present respectively in $^{80}_{35}Br$
(a) 80, 80, 35 (b) 35, 55, 80 (c) 35, 35, 80 (d) 35, 45, 35
24) The correct electronic configuration of potassium is
(a) 2,8,9 (b) 2,8,1 (c) 2,8,8,1 (d) 2,8,8,3
25) The tropic movement that helps the climbing vines to find a suitable support is
(a) phototropism (b) geotropism (c) thigmotropism (d) chemotropism
26) The chemical reaction occurs during photosynthesis is
 (a) CO₂ is reduced and water is oxidized (b) water is reduced and CO₂ is oxidized (c) both CO₂ and water are oxidized (d) both CO₂ and water are produced
27) The bending of root of a plant in response to water is called
(a) thigmonasty (b) phototropism (c) hydrotropism (d) photonasty
28) A growing seedling is kept in the dark room. A burning candle is placed near it for a few days. The top part of the seedling bends towards the burning candle. This is an example of
(a) chemotropism (b) thigmotropism (c) phototropism (d) geotropism
29) The root of the plant isi) positively phototropic but negatively geotropic

ii) positively geotropic but negatively phototropiciii) negatively phototropic but positively hydrotropic
iv)negatively hydrotropic but positively phototropic
(a) (i) and (ii) (b) (ii) and (iii) (c) (iii) and (iv) (d) (i) and (iv)
30) The non-directional movement of a plant part in response to temperature is called .
(a) thermotropism (b) Thermonasty (c) chemotropism (d) thigmonasty
31) Chlorophyll in a leaf is required for
(a) photosynthesis (b) transpiration (c) tropic movement (d) nastic movement
32) Transpiration takes place through
(a) fruit (b) seed (c) flower (d) stomata
33) Find the group having only marine members
(a) Mollusca (b) Porifera (c) Coelenterata (d) Echinodermata 34) Mesoglea is present in
(a) Porifera (b) Coelenterata (c) Annelida (d) Arthropoda
35) Which one of the following pairs is not a poikilothermic animal?
(a) Fishes and Amphibians (b) Amphibians and Aves (c) Aves and Mammals
(d) Reptiles and mammals
36) Identify the animal having four chambered heart
(a) Lizard (b) Snake (c) Crocodile (d) Calotes
37) The animal without skull is
(a) Acrania (b) Acephalia (c) Apteria (d) Acoelomate
38) Hermaphrodite organisms are
(a) Hydra, Tape worm, Earthworm, Amphioxus
(b) Hydra, Tape worm, Earthworm, Ascidian
(c) Hydra, Tape worm, Earthworm, Balanoglossus
(d) Hydra, Tape worm, Ascaris, Earthworm
39) Poikilothermic organisms are
(a) Fish, Frog, lizard, man (b) Fish, Frog, lizard, cow (c) Fish, Frog, lizard, snake (d) Fish, Frog, lizard, crow
40) Excretory organ of tape worm is
(a) Flame cells (b) Nephridia (c) Body surface (d) Solenocytes
41) Air sacs and pneumatic bones are seen in
(a) fish (b) frog (c) birds (d) bat
42) Water vascular system is found in
(a) hydra (b) earth worm (c) star fish (d) ascaris
43) The nutrient required in trace amounts to accomplish various body functions is
(a) Carbohydrate (b) Protein (c) Vitamin (d) Fat

44) The physician who discovered that scurvy can be cured by ingestion of citrus fruits is
(a) James Lind (b) Louis Pasteur (c) Charles Darwin (d) Isaac Newton
45) The sprouting of onion and potatoes can be delayed by the process of
(a) irradiation (b) Irradiation (c) Salting (d) Canning
46) Food and Adulteration Act was enacted by Government of India in the year
(a) 1964 (b) 1954 (c) 1950 (d) 1963
47) An internal factor responsible for spoilage of food is
(a) Wax coating (b) Contaminated utensils (c) Moisture content in food
(d) Synthetic preservatives
48) is an electronic device which stores data and information
(a) Telescope (b) Television (c) Computer (d) Radio
49) belongs to the generation IV of the computer
(a) Microprocessor (b) Artificial intelligence (c) Transistor (d) Vaccum Tubes
50) Data processing involves steps
(a) seven (b) four (c) six (d) eight
51) 1. Abacus belongs to the first generation of the computer 2. ENIAC was used in the American military
(a) Both the statements are correct (b) Statement 1 is wrong but 2 is correct
(c) Statement 1 is correct but 2 is wrong (d) Both the statements are wrong.
52) Calorie is the unit of
(a) heat (b) work (c) temperature (d) food
53) SI unit of temperature is
(a) fahrenheit (b) joule (c) celsius (d) kelvin
54) Two cylindrical rods of same length have the area of cross section in the ratio 2:1. If both the rods are made up of same material, which of them conduct heat faster?
(a) Both rods (b) Rod-2 (c) Rod-1 (d) None of them
55) In which mode of transfer of heat, molecules pass on heat energy to neighbouring molecules without actually moving from their positions?
(a) Radiation (b) Conduction (c) Convection (d) Both B and C
56) A device in which the loss of heat due to conduction, convection and radiation is minimized in
(a) Solar cell (b) Solar cooker (c) Thermometer (d) Thermos flask
57) In current electricity, a positive charge refers to,
(a) presence of electron (b) presence of proton (c) absence of electron
(d) absence of proton
58) Rubbing of comb with hair.

(a) creates electric charge (b) transfers electric charge (c) either (a) or (b) (d) neither (a) nor (b)
59) Electric field lines from positive charge and in negative charge.
(a) start; start (b) end; start (c) start; end (d) end; end
60) Potential near a charge is the measure of its to bring a positive charge at that point.
(a) force (b) ability (c) tendency (d) work
61) In an electrolyte the current is due to the flow of
(a) electrons (b) positive ions (c) both (a) and (b) (d) neither (a) nor (b)
62) Heating effect of current is called,
(a) Joule heating (b) Coulomb heating (c) Voltage heating (d) Ampere heating 63) Electroplating is an example for
(a) heating effect (b) chemical effect (c) flowing effect (d) magnetic effect
64) Resistance of a wire depends on
(a) temperature (b) geometry (c) nature of material (d) all the above
65) Which of the following converts electrical energy into mechanical energy?
(a) motor (b) battery (c) generator (d) switch
66) The part of the AC generator that passes the current from the armature coil to the external circuit is
(a) field magnet (b) split rings (c) slip rings (d) brushes
67) Transformer works on.
(a) AC only (b) DC only (c) both AC and DC (d) AC nor effectively than DC
68) The unit of magnetic flux density is
(a) weber (b) weber/metre (c) weber/metre ² (d) weber. metre ²
69) If Dobereiner is related with 'law of triads', then Newlands is related with
(a) Modern periodic law (b) Hund's rule (c) Law of octaves
(d) Pauli's Exclusion principle
70) Modern periodic law states that the physical and chemical properties of elements are the periodic functions of their
(a) atomic numbers (b) atomic masses (c) similarities (d) anomalies
71) Elements in the modern periodic table are arranged in groups and periods.
(a) 7,18 (b) 18,7 (c) 17,8 (d) 8, 17
72) Number of valence electrons in carbon is
(a) 2 (b) 3 (c) 4 (d) 5
73) Sodium having atomic number 11, ready toelectron/electrons to attain the nearest noble gas electronic configuration.
(a) gain one (b) gain two (c) lose one (d) lose two

74) The element that would form anion by gaining electrons in a chemical reaction is
(a) Potassium (b) Calcium (c) Fluorine (d) Iron
75) Bond formed between a metal and non-metal atom is usually
(a) ionic bond (b) covalent bond (c) co-ordinate bond (d) covalent bond
76)compounds have high melting and boiling points.
(a) Covalent (b) Coordinate (c) Ionic (d) Coordinate
77) Covalent bond is formed by
(a) transfer of electrons (b) sharing of electrons (c) sharing a pair of electrons (d) transfer of electrons
78) Oxidising agents are also called asbecause they remove electrons form other substances.
(a) electron donors (b) electron acceptors (c) electron donors (d) Ionic
79) Elements with stable electronic configurations have eight electrons in their valence shell. They are
(a) Halogens (b) Metals (c) Noble gases (d) non metals
80) The property which is characteristics of an Ionic compound is that
(a) it oen exists as gas at room temperature (b) it is hard and brittle
(c) it undergoes molecular reactions (d) it has low melting point
81) $\operatorname{Zn} + 2\operatorname{HCI} \longrightarrow \operatorname{ZnCl}_2 + \underline{\hspace{1cm}} \uparrow (\operatorname{H}_{2'} \operatorname{O}_{2'} \operatorname{CO}_2)$
(a) H_2 (b) O_2 (c) CO_2 (d) CO_2
82) Apple contains malic acid. Orange contains
(a) citric acid, (b) ascorbic acid (c) citric acid, (d) acid
83) Acids in plants and animals are organic acids. Whereas acids in rocks and minerals are
(a) Inorganic acids (b) Weak acids (c) citric acid (d) ascorbic acid
84) Acids turn blue litmus paper to
(a) Green (b) Red (c) Orange (d) Orange
85) Since metal carbonate and metal bicarbonate are basic they react with acids to give salt and water with the liberation of
(a) NO_2 (b) SO_2 (c) CO_2 (d) SO_2
86) The hydrated salt of copper sulphate hascolour
(a) Red (b) White (c) Blue (d) White
87) The tissue composed of living thin walled polyhedral cell is
(a) Parenchyma (b) Collenchyma (c) Sclerenchyma (d) None of above
88) The fibres consists of
(a) Parenchyma (b) Sclerenchyma (c) Collenchyma (d) None of above
89) Companion cells are closely associated with
(a) sieve elements (b) vessel elements (c) Trichomes (d) guard cells

90) Which of the following is a complex tissue?
(a) Parenchyma (b) Collenchyma (c) Xylem (d) Sclerenchyma
91) Aerenchyma is found in
(a) epiphytes (b) hydrophytes (c) halophytes (d) xerophytes
92) Smooth muscles occur in
(a) uterus (b) artery (c) vein (d) all of the above
93) Nerve cell does not contains
(a) axon (b) nerve endings (c) tendons (d) dendrites
94) Which of the following is not a salivary gland?
(a) Sublingual (b) Lachrymal (c) Submaxillary (d) Parotid
95) Stomach of man mainly digests
(a) carbohydrates (b) proteins (c) fat (d) sucrose
96) To prevent the entry of food into the trachea, the opening is guarded by
(a) epiglottis (b) glottis (c) hard palate (d) soft palate
97) Bile helps in the digestion of
(a) proteins (b) sugar (c) fats (d) carbohydrates
98) The structural and functional unit of the kidney is
(a) villi (b) liver (c) nephron (d) ureter
99) Which one of the following substance is not a constituent of sweat?
(a) Urea (b) Protein (c) Water (d) Salt
100) The common passage meant for transporting urine and sperms in male is
(a) ureter (b) urethra (c) vas deferens (d) scrotum
101) Which of the following is not a part of female reproductive system?
(a) Ovary (b) Uterus (c) Testes (d) Fallopian tube
102) Which one of the following is an output device?
(a) Mouse (b) Keyboard (c) Speaker (d) Pendrive
103) Name the cable that connects CPU to the monitor.
(a) Ethernet (b) VGA (c) HDMI (d) USB
104) Which one of the following is an input device?
(a) Speaker (b) Mouse (c) Monitor (d) Printer
105) Which one of the following is an example for wireless connections?
(a) Wi-Fi (b) Electric wires (c) VGA (d) USB
106) Pen drive isdevice.
(a) Output (b) Input (c) Storage (d) connecting cable
107) The size of an air bubble rising up in water
(a) decreases (b) increases (c) remains same (d) may increase or decrease
108) Clouds float in atmosphere because of their low

(a) density (b) pressure (c) velocity (d) mass 109) In a pressure cooker, the food is cooked faster because (a) increased pressure lowers the boiling point (b) increased pressure raises the boiling point (c) decreased pressure raises the boiling point (d) increased pressure lowers the melting point 110) An empty plastic bottle closed with an airtight stopper is pushed down into a bucket filled with water. As the bottle is pushed down, there is an increasing force on the bottom as shown in graph. This is because (a) more volume of liquid is dispaced (b) more weight of liquid is displaced (c) pressure increases with depth (d) all the above 111) Which of the following vibrates when a musical note is produced by the cymbals in a orchestra? (a) stretched strings (b) stretched membranes (c) air columns (d) metal plates 112) Sound travels in air: (a) if there is no moisture in the atmosphere. (b) if particles of medium travel from one place to another. (c) if both particles as well as disturbance move from one place to another. (d) if disturbance moves. 113) A musical instrument is producing continuous note. This note cannot be heard by a person having a normal hearing range. This note must then be passing through (a) wax (b) vacuum (c) water (d) empty vessel 114) The maximum speed of vibrations which produces audible sound will be in (a) seawater (b) ground glass (c) dry air (d) Human blood 115) The sound waves travel faster (a) in liquids (b) in gases (c) in solids (d) in vacuum 116) Who proposed the heliocentric model of the universe? (a) Tycho Brahe (b) Nicolaus Copernicus (c) Ptolemy (d) Archimedes 117) Which of the following is not a part of outer solar system? (a) Mercury (b) Saturn (c) Uranus (d) Neptune 118) Ceres is a . (a) Meteor (b) Star (c) Planet (d) Astroid 119) The period of revolution of planet A around the Sun is 8 times that of planet B. How many times is the distance of planet A as great as that of planet B? (a) 4 (b) 5 (c) 2 (d) 3 120) The Big Bang occurred _____ years ago.

(a) 13.7 billion (b) 15 million (c) 15 billion (d) 20 million
121) A phenomenon in which an element exists in different modification in same physical state is called
(a) Isomerism (b) Allotropy (c) Catenation (d) Crystallinity
122) Carbon forms large number of organic compounds due to
(a) Allotropy (b) Isomerism (c) Tetravalency (d) Catenation
123) Plastics made of Polycarbonate (PC) and Acrylonitrile Butadiene Styrene (ABS) are made of resin code
(a) 2 (b) 5 (c) 6 (d) 7
124) Graphene is one atom thick layer of carbon obtained from
(a) Diamond (b) Fullerene (c) Graphite (d) Gas Carbon
125) The legal measures to prevent plastic pollution come under the Protection Act 1988.
(a) Forest (b) Wildlife (c) Environment (d) Human Rights
126) Nandhini brings his lunch every day to school in a plastic container which has resin code number 5. The container is made of:
(a) Polystyrene (b) PVC (c) Polypropylene (d) LDPE
127) One Nanometre is
(a) 10^{-7} metre (b) 10^{-8} metre (c) 10^{-6} metre (d) 10^{-9} metre
128) The antibiotic Penicillin is obtained from
(a) plant (b) microorganism (c) animal (d) sunlight
129) 1% solution of Iodoform is used as
(a) antipyretic (b) antimalarial (c) antiseptic (d) antacid
130) The cathode of an electrochemical reaction involves
(a) oxidation (b) reduction (c) neutralisation (d) catenation
131) The age of a dead animal can be determined by using an isotope of
(a) carbon (b) iodine (c) phosphorous (d) oxygen
132) Which of the following does not contain natural dyes?
(a) Potato (b) Beetroot (c) Carrot (d) Turmeric
133) This type of food protect us from deficiency diseases.
(a) Carbohydrates (b) Vitamins (c) Proteins (d) Fats
134) Radiochemistry deals with
(a) oxidants (b) batteries (c) isotopes (d) nanoparticles
135) The groups responsible for the colour of an organic compound is called
(a) isotopes (b) auxochrome (c) chromogen (d) chromophore
136) Chlorinated hydrocarbons are used as
(a) fertilizers (b) pesticides (c) food colourants (d) preservatives
137) All the factors of biosphere which affect the ability of organisms to survive and reproduce are called as

(a) biological factors (b) abiotic factors (c) biotic factors (d) physical factors
138) The ice sheets from the north and south poles and the icecaps on the mountains,
get converted into water vapour through the process of
(a) evaporation (b) condensation (c) sublimation (d) infiltration
139) The atmospheric carbon dioxide enters into the plants through the process of
(a) photosynthesis (b) assimilation (c) respiration (d) decomposition
140) Increased amount of in the atmosphere, results in greenhouse effect and global warming
(a) carbon monoxide (b) sulphur dioxide (c) nitrogen dioxide (d) carbon dioxide
141) The production and management of fish is called
(a) Pisciculture (b) Sericulture (c) Aquaculture (d) Monoculture
142) Which one of the following is not an exotic breed of cow?
(a) Jersey (b) Holstein-Friesan (c) Sahiwal (d) Brown Swiss
143) Which one of the following is an Italian species of honey bee?
(a) Apis mellifera (b) Apis dorsata (c) Apis florae (d) Apis cerana
144) Which one of the following is not an Indian major carp?
(a) Rohu (b) Catla (c) Mrigal (d) Singhara
145) Drones in the honey bee colony are formed from
(a) unfertilized egg (b) fertilized egg (c) parthenogenesis (d) both b and c
146) Which of the following is an high milk yielding variety of cow?
(a) Holstein-Friesan (b) Dorset (c) Sahiwal (d) Red Sindhi
147) Which Indian variety of honey bee is commonly used for apiculture?
(a) Apis dorsata (b) Apis florea (c) Apis mellifera (d) Apis indica
148) is the method of growing plants without soil.
(a) Horticulture (b) Hydroponics (c) Pomology (d) None of these.
149) The symbiotic association of fungi and vascular plants is
(a) Lichen (b) Rhizobium (c) Mycorhizae (d) Azotobacter
150) The plant body of mushroom is
(a) Spawn (b) Mycelium (c) Leaf (d) All of these
151) Which of the following is transmitted through air?
(a) Tuberculosis (b) Meningitis (c) Typhoid (d) Cholera
152) One of the means of indirect transmission of a disease is
(a) sneezing (b) coughing (c) vectors (d) droplet infection
153) Diptheria affects the
(a) Lungs (b) Throat (c) Blood (d) Liver
154) The primary organ infected during tuberculosis is
(a) bone marrow (b) intestine (c) spleen (d) lungs
155) Microbes that generally enter the body through nose are likely to affect

(a) gut (b) lungs (c) liver (d) lymph nodes
156) The organ affected by jaundice is
(a) liver (b) lungs (c) kidney (d) brain
157) Poliomyelitis virus enters the body through
(a) skin (b) mouth and nose (c) ears (d) eye
158) Find out the part that is not found in CPU?
(a) Mother Board (b) SMPS (c) RAM (d) Mouse
159) Which of the following is correct?
(a) Free and Open source (b) Free and Traditional software
(c) Passive and Open source (d) Passive and Traditional source
160) LINUX is a
(a) Paid Software (b) Licensed Software (c) Free and Proprietary software
(d) Free and Open source software
161) Find out the Paid and Proprietary software from the given list
(a) Windows (b) MAC OS (c) Adobe Photoshop (d) All the above
is an Operating System.
(a) Android (b) Chrome (c) Internet (d) Pendrive
is a structured delivery of information.
(a) Slide Show (b) Page (c) WordArt (d) Presentation 164) The slides are grouped together in a sequence to form
(a) slide show (b) sharts (c) page (d) messages
165) A presentation consists of many
(a) pages (b) slides (c) placeholders (d) messages
166) which key should be pressed to run a slide show?
(a) F1 (b) Tab (c) F5 (d) F2
167) is used to insert attractive text in the slide.
(a) Slide Show (b) Word Art (c) Text (d) Header and Footer
168) Distance between Chennai and Kanyakumari can be found in
(a) Kilometres (b) Metres (c) Centimetres (d) Millimetres
169)is the fundamental quantity.
(a) Length (b) Area (c) Volume (d) Density
170)is the derived quantity.
(a) Length (b) Volume (c) Mass (d) Time
171) Unit of time is
(a) km (b) mm (c) second (d) cm
172) Many of the ancient system of measurement were based on the dimensions of
(a) Plants (b) Animals (c) Human body (d) God

173)is not the unit of length.
(a) Muzham (b) Furlong (c) Mile (d) Hour
174) There arefundamental units in SI system of units.
(a) 7 (b) 4 (c) 6 (d) 5
175) Moment is equal toof an hour.
(a) $\frac{1}{40}$ (b) $\frac{1}{80}$ (c) $\frac{1}{60}$ (d) $\frac{1}{20}$
176) The unit of area is
(a) m^3 (b) m (c) m^2 (d) $\frac{m}{s}$
177) Density is
(a) $\frac{volume}{mass}$ (b) $\frac{mass}{volume}$ (c) $\frac{area}{volume}$ (d) $\frac{volume}{area}$
178) Unit of acceleration is
(a) ms^{-2} (b) ms^{-1} (c) $\frac{m}{s}$ (d) $\frac{s}{m}$
179) Light year is the distance travelled by light
(a) one year (b) two years (c) 10 years (d) 5 years
180) Light travelsm in one second.
(a) 5×10^3 (b) 5×10^8 (c) 3×10^8 (d) 8×10^3
181) One meter is approximately equal toinches.
(a) 80 (b) 60 (c) 20 (d) 40
182) 1 quintal is equal tokg.
(a) 100 (b) 200 (c) 1000 (d) 10
183) Newton, henry, ampere and watt arenamed after scientist.
(a) length (b) distance (c) meter (d) units
184) The diameters of spherical objects are measured with ascale.
(a) pitch (b) meter (c) head (d) vernier
185) The measure the diameter of a thin wireis used.
(a) Screw gauge (b) Water gauge (c) Meter gauge (d) Wind gauge 186) With the help of common beam balance we can measure mass accurately up
togm.
(a) 2 gms (b) 5 gms (c) 100 gms (d) 20 gms
187)balance is used in lab.
(a) Spring (b) Common (c) Physical (d) Digital
188)is the unit distance used to measure astronomical objects outside the solar system.
(a) Parsec (b) km (c) cm (d) litre
189) Timing the race completed by your friend to measure the unit
(a) time (b) second (c) hour (d) metre
190) SI system of units was developed and recommended in for international usage.

(a) 1950 (b) 1980 (c) 1970 (d) 1960
191) SI unit of temperature
(a) Kelvin (b) candela (c) ampere (d) mole
192) A fortnight is days.
(a) 28 (b) 12 (c) 14 (d) 21
193) One light year in vaccum is equal to
(a) $6.49 \times 10^{15} \mathrm{m}$ (b) $9.64 \times 10^{15} \mathrm{m}$ (c) $4.96 \times 10^{15} \mathrm{m}$ (d) $9.46 \times 10^{15} \mathrm{m}$
194) Derived unit of pressure is
(a) Pascal (b) Newton (c) Joule (d) Square meter
195) The total length of all the blood vessels in human body is km.
(a) 69000 (b) 96000 (c) 60,900 (d) 90600
196) Least count of vernier is
(a) 0.1 mm (b) 0.1 cm (c) 0.1 dm (d) 0.1 m
197) is possible to measure the thickness of thin metalic plate.
(a) Vernier caliper (b) Digital vernier caliper (c) Screw gauge (d) Digital balance
198) All the things express in cargo in etc.
(a) kilogram (b) gram (c) quintal (d) tonnes
199) is the quantity of matter contained in a body.
(a) Weight (b) Mass (c) Thickness (d) Volume
200) Slope of the velocity - time graph gives
(a) speed (b) displacement (c) distance (d) acceleration
201) A body moving with an initial velocity 5ms ⁻¹ and accelerates at 2ms ⁻² . Its velocity after 10s is
(a) 20ms^{-1} (b) 25ms^{-1} (c) 5ms^{-1} (d) 22.55ms^{-1}
202) In a 100m race, the winner takes 10s to reach the finishing point. The average speed of the winner is
(a) 5ms ⁻¹ (b) 20ms ⁻¹ (c) 40ms ⁻¹ (d) 10ms ⁻¹
203) A car is being driven at a speed of 20 ms ⁻¹ when brakes are applied to bring it to rest in 5 s. The decelaration produced in this case will be
(a) $+4 \text{ ms}^{-2}$ (b) -4 ms^{-2} (c) -0.25 ms^{-2} (d) $+0.25 \text{ ms}^{-2}$
204) Unit of acceleration is
(a) ms^{-1} (b) ms^{-2} (c) ms (d) ms^{2}
205) The force responsible for drying of clothes in a washing machine is
(a) Centripetal force (b) Centrifugal force (c) Gravitational force
(d) Electro static force
206) The area under velocity time graph represents
(a) Velocity of the moving object (b) Displacement covered by the moving object
(c) Speed of the moving object

207) When a body starts from rest, the acceleration of the body after 2 second in of its displacement.
(a) Half (b) Twice (c) Four times (d) One fourth
208) In a 100 m race, the winner takes 10 s to reach the finishing point. The average speed of the winner is $____ ms^{-1}$.
(a) 5 (b) 10 (c) 20 (d) 40
209) Force involved in uniform circular motion is given by
(a) $f = mv^2/r$ (b) $f = mvr$ (c) $f = mr^2/v$ (d) $f = v^2/r$
210) Speed is never
(a) fraction (b) negative (c) zero (d) positive
211) During uniform motion, the change in velocity is
(a) zero (b) infinity (c) constant (d) one
212) If velocity of a body decreases in equal intervals of time is termed
(a) uniform acceleration (b) non-uniform acceleration (c) negative acceleration (d) positive acceleration
213) Negative acceleration is expressed in
(a) m/s (b) $-m/s$ (c) $-m/s^2$ (d) m/s^2
214) The velocity time graph is parallel to X-axis it shows
(a) uniform velocity of an object (b) non-uniform velocity
(c) stationary position of an object (d) acceleration motion of an object
215) The slope of the velocity time graph for uniformly accelerated motion give
(a) speed (b) acceleration (c) displacement (d) velocity
216) Area under a velocity time graph gives
(a) time taken by an object (b) distance travelled by an object (c) acceleration
(d) retardation
217) The velocity of a freely falling body
(a) decreases (b) zero (c) increases (d) equal to one
218) A body moving along a circular path has
(a) constant speed (b) constant velocity (c) no radial acceleration
(d) no tangential velocity
219) The hands of the clock, the spokes of wheel are example of
(a) linear motion (b) circular motion (c) oscillatory motion
(d) revolutionary motion
220) In which direction of the motion of the particles does centripetal force act?
(a) parallel (b) radial (c) tangential (d) perpendicular
221) In a 50 m race the winner takes 5 s to reach the finishing point. The average speed of the winner is
(a) 20 m/s (b) 25 m/s (c) 10 m/s (d) 500 m/s

222) In physics the objects which do not change their position are said to be at
(a) motion (b) rest (c) motion and rest (d) running 223) Find the odd one out.
(a) Car running on the road (b) Birds flying in the air (c) The wall of a room
(d) Bicycle riding on the road 224) Where the object moves along a circular path is
(a) Linear motion (b) Oscillatory motion (c) Random motion (d) Circular motion 225) Displacement is aquantity.
(a) vector (b) scalar (c) vector and scalar (d) none of these
226) A bus starting from a stop and passes crowded area of the road is good example for
(a) uniform motion (b) non uniform motion (c) speed (d) velocity 227) Unit for velocity is
(a) m/s (b) m/s^2 (c) m (d) m/s^2
228) The product of velocity, and time gives as an object moving with uniform velocity.
(a) velocity (b) time (c) displacement (d) acceleration
229) The field of view * is maximum for
(a) plane mirror (b) concave mirror (c) convex mirror
230) The focal length of a concave mirror is 5cm. Its radius of curvature is
(a) 5 cm (b) 10 cm (c) 2.5 cm
231) A real and enlarged image can be obtained by using a
(a) convex mirror (b) plane mirror (c) concave mirror
232) Which of the following statements about total internal reflection is true?
(a) angle of incidence should be greater than critical angle
(b) light must travel from a medium of higher refractive index to a medium of lower refractive index
(c) both (a) and (b)
233) Mirrors having spherical surface of reflection are
(a) plane mirror (b) lenses (c) spherical mirrors (d) prism
234) A spherical mirror which has reflecting curved inward surface ismirror
(a) concave (b) convex (c) plano concave (d) plano convex
235) The mirror that diverge the light rays is
(a) concave (b) convex (c) plane (d) None of these
236) The centre of the sphere, of which a spherical mirror is a part is called
(a) note (b) radius of surreture (c) focus (d) contra of surreture
(a) pole (b) radius of curvature (c) focus (d) centre of curvature 237) The centre of the reflecting surface of a spherical mirror is
, The contro of the reflecting surface of a spirotreal lillion is

(a) centre of curvafure (b) focus (c) pole (d) radius of curvature 238) The point at which the rays are converged or diverged by a mirror is
(a) pole (b) principal focus (c) principal axis (d) centre of curvature
239) The radius of curvature of the spherical mirror is equal to
(a) focal length(b) twice the focal length(c) thrice the focal length(d) half of the focal length
240) A virtual and equal sized image is formed bymirrors.
(a) convex (b) plane (c) convex (d) spherical 241) To form a real imagemirror is required.
(a) parallel (b) plane (c) convex (d) concave
242) Virtual and magnified image is formed bymirror
(a) concave (b) convex (c) plane (d) both concave and convex
243) Accordingto of light, angle of incidence is equal to angle of reflection
(a) refraction (b) dispersion (c) reflection (d) total internal reflection
244) An object is placed between F and 2F of a concave, mirror image will be formed
(a) at infinity (b) beyond F (c) beyond 2F (d) between F and O
245) The mirror used by a dental surgeon, is
(a) plane (b) convex (c) concave and convex (d) concave
246) The angle between the normal and the refracted ray is called angle of
(-) (1-) (-) (-) (-) (-) (-) (-) (-) (-) (-) (
(a) reflection (b) refraction (c) incidence (d) deviation
247) The second law of refraction is stated by
(a) C.V. Raman (b) Gallileo (c) Newton (d) Snell
248) The velocity of light in air is
(a) 1.8×10^8 m/s (b) 3×10^8 m/s (c) 2.25×10^8 m/s (d) 3×10^6 m/s
249) The branch of physics that deals with the properties and application of light is called
(a) Heat (b) Zoology (c) Optics (d) Visual communication
250) The geometrical centre of the spherical mirror is
(a) Centre of curvature (b) Pole (c) Radius of curvature (d) Principal focus
251) Radius of curvature and focal length are related to each other by the formula
(a) $R = 2f$ (b) $f = 2R$ (c) $Rf = 2$ (d) $R = 2 + f$
252) A ray passing through the centre of curvature is reflected back
(a) travels parallel to the principal axis (b) passes through the focus
(c) along a path such that the angle of incidence is equal to the angle of reflection
(d) along its own path

253) If the light rays coming from an object actually meet, after reflection the image formed will be
(a) Real image (b) Virtual image (c) False image (d) None of the above
254) When the object is in between the centre of curvature and focus, size of image is
(a) same (b) magnified (c) smaller than object (d) no image formed
255) A sign in the value of magnification indicates that the image is virtual.
(a) negative (b) positive (c) multiplicative (d) division
256) mirrors are installed on public roads as trafic safety device.
(a) Convex (b) Concave (c) Plane (d) None of abow
257) Speed of light is first land based estimates was made by
(a) Galileo Galilei (b) Ole Roemer (c) Armand Fizeau (d) Narinder Kapany
258) Refractive index of diamond is
(a) 1.33 (b) 1.5 (c) 1.00 (d) 2.41
259) The physical state of water at 373 K is
(a) Solid (b) liquid (c) vapour (d) plasma
260) The constituents that form a mixture are also called
(a) Elements (b) Compounds (c) Alloys (d) Components
261) Difference inis the principle used in fractional distillation
(a) solubility (b) melting point (c) boiling point (d) adsorption
262) Filtration method is effective in separating mixture
(a) Solid-solid (b) solid-liquid (c) liquid-liquid (d) liquid-gas
263) For a simple distillation process we need to have
(a) an evaporating dish (b) a separating funnel (c) a filter with filter paper (d) a Liebig condenser
264) Gas particles can be forced to get closer and can be easily compressed. So increases.
(a) pressure (b) volume (c) mass (d) weight
265) Light, sound, heat, etc., are not matter. They are different forms of
(a) solids (b) liquids (c) gases (d) energy
266) Particles of matter are in constant motion as they possesenergy.
(a) potential (b) kinetic (c) solar (d) wind
267) Solidsinto liquid
(a) freezes (b) condenses (c) vaporises (d) melts
268) is a process by which a substance changes from the liquid to gaseous state.
(a) Boiling (b) Evaporation (c) Melting (d) Condensation
269) Evaporation takes place at theof a liquid.
(a) middle (b) surface (c) side (d) bottom

270) The direct change of state from solid to gas is called
(a) filtration (b) decantation (c) sublimation (d) evaporation
271) The pressure of a given mass of an ideal gas is inversely proportional to its volume at a constant
(a) volume (b) temperature (c) pressure (d) rate
272) A mixture can be separated into its constituents by
(a) Physical (b) Chemical (c) Electrical (d) Magnetic
273) Energy is neither given out nor absorbed in the preparation of
(a) element (b) compound (c) mixture (d) solvent
274) Gel aresolutions with liquid dispersed in solid
(a) True (b) Suspension (c) Colloid (d) Homogeneous
275) The process of turning a liquid mixture into an emulsion is called
(a) Emulsification (b) Esterification (c) Purification (d) Mixing
276) To separate two or more miscible liquids which do not differ much in the boiling pointsis employed
(a) distillation (b) filtration (c) decantation (d) fractional distillation
277) Mixture of two immiscible liquids are separated by using a
(a) funnel (b) test tube (c) beaker (d) separating funnel
278) proposed atomic theory.
(a) John Dalton (b) Robert Brown (c) Albert Einstein (d) Richard Feynman
279) Odd one out.
(a) Pollen particles move randomly
(b) Dancing of rock dust particles in the surface of water
(c) To and fro action of trees (d) Dust particles dancing a narrow beam light
280) A grain of common salt contains particles.
(a) 2.1×10^{18} (b) 1.2×10^{18} (c) 2.1×10^{81} (d) 1.2×10^{81}
281) Melting point of sodium is °C
(a) 3550 (b) 1540 (c) -219 (d) 98
282) Boiling point of oxygen is °C
(a) -183 (b) 890 (c) 4832 (d) 2900
283) Boiling point of water inside the pressure cooker is
(a) 100°C (b) 110°C (c) 120°C (d) 80°C
284) Odd one out.
(a) Dry ice (b) Mercury (c) Napthalene (d) Ammonium chloride
285) posses highest kinetic energy.
(a) Solid (b) Liquid (c) Gas (d) None of these
286) have high density particles.
(a) Solid (b) Liquid (c) gas (d) None of these
287) In modern periodic table numbers of elements naturally occuring.

(a) 88 (b) 69 (c) 72 (d) 92
288) Identify the metalloids. i) Boran, silicon ii) Gold, mercury iii) Oxygen, Neon iv) Germanium, Arsenic
(a) i and ii (b) i and iii (c) i and iv (d) ii and iv
289) Among the following is the metal.
(a) Carbon (b) Mercury (c) Arsenic (d) Germanium 290) Among the following which metal is to enough heat of our hand to change solid into liquid
(a) Gallium (b) Mercury (c) Gold (d) Aluminium
291) Law of multiple proportions was proposed by
(a) J. Ritcher (b) Rutherford (c) John Dalton (d) J.J Thomson 292) $2H_2 + O_2 \longrightarrow 2H_2O$. This is a reaction.
(a) Combination (b) Displacement (c) Decomposition (d) Exothermic
293) The compounds N_{20} , NO_2 , N_2O_4 , N_2O_5 explains law.
(a) Law of definite proportion(b) Law of multiple proportion(c) Law of reciprocal proportion(d) Law of conservation of mass
294) An alpha particle is identical with aNucleus.
(a) Argon (b) Chlorine (c) Neon (d) Helium 295) Most of the fast moving α particles passed straight through the gold foil explains
(a) An atom has nucleus (b) There is a large empty space around the nucleus.
(c) Electrons move in circular paths (d) Nucleus is in the centre
296) The circular orbits are numbered as 1,2,3,4, These numbers are referred as
(a) Principal Quantum Number (b) Azimuthal Quantum Number
(c) Mangetic Quantum Number (d) Spin Quantum Number
297) Maximum number of electrons that can be accommodated in an energy level is given by the formula
(a) n^2 (b) $2n^2$ (c) $3n^2$ (d) $2n^3$
298) James Chadwick observed when was exposed to a particle, particles with about the same mass as protons were emitted.
(a) Boron (b) Carbon (c) Helium (d) Beryllium
299) Protons and neutrons are collectively called as
(a) mesons (b) neutrino (c) Nucleons (d) Positrons
300) Atoms of the same element having same atomic number but different Mass number are called
(a) Isotopes (b) Isobars (c) Isotones (d) Isotherm
301) The outermost shell of an atom is called its shell.

(a) inner (b) outer (c) valence (d) sub shell
302) Carbon has 4 valence electrons in the outermost shell. So the valency is
(a) 2 (b) 6 (c) 4 (d) 3
303) Elements which have valence electrons 1 or 2 or 3 are
(a) metal (b) non-metal (c) rare metal (d) valuable metal
304) The electronic configuration of Neon is 2, 8. So the valency is
(a) 2 (b) 8 (c) 0 (d) 10
305) Our bodies contain radioisotopes such aswhich continuously emit radiation.
(a) Potassium 40 (b) Iodine 131 (c) Cobalt 60 (d) Carbon 14
306) Gay-Lussac law always dealing with
(a) Solids (b) Liquids (c) Gases (d) Semi-solids
307) Odd one out
(a) Law of conservation of mass (b) Law of constant proportion
(c) Law of Flemming left hand (d) Law of Reciprocal proportion
308) Mass of oxygen atom g
(a) 16 (b) 12 (c) 4 (d) 8
309) The law of reciprocal proportion was proposed by
(a) John Dalton (b) Jeremias Ritcher (c) Gay Lussac (d) Ruther ford
310) James Chadwick was discovered
(a) Proton (b) Electron (c) Positrons (d) Neutron
311) is used fuel in Nuclear reactros.
(a) Uranium - 235 (b) Cobalt - 60 (c) Iodine - 13 I (d) Carbon - 14
312) Electronic configuration of phosphorus is
(a) 2,8,3 (b) 2,8.4 (c) 2,8,5 (d) 2,8,8
313) Atomic number of Aluminium is 13 and mass number is 27 then the number of electrons present
(a) 27 (b) 14 (c) 40 (d) 13
314) A big tree falls in a forest but its roots are still in contact with the soil. The branches of this fallen tree straight up. This happens in response to
(a) water and light (b) water and minerals (c) gravity and water
(d) light and gravity
315) Transpiration is best defined as
(a) loss of water by the plant
(b) evaporation of water from the aerial surfaces from the plant
(c) loss of water in the form of water vapour from the underground parts of the plant body
(d) release of water from the plant into the atmosphere
316) The plant part which exhibits negative geotropism is

(a) root (b) stem (c) branch (d) leaves
317) Dandelion flowers open the petals in bright light during the day time but close the petals in dark at night. This response of Dandelion flowers is called
(a) geonasty (b) thigmonasty (c) chemonasty (d) photonasty
318) During photosynthesis plants exhale
(a) Carbon dioxide (b) oxygen (c) hydrogen (d) helium
319) A plant is kept in a dark room for about 24 hours before conducting any experiment on photosynthesis in order to
(a) remove chlorophyll from the leaf (b) remove starch from the leaves
(c) ensure that photosynthesis occurred (d) to prove transpiration
320) The common name of Mimosa pudica is
(a) sun flower (b) Touch me not (c) Moon plant (d) Thozhukanni 321) Sunflower follows the path of the sun from
(a) south to north (b) North to south (c) East to West (d) west to east. 322) Desmodium gyrans is commonly known as
(a) Money plant (b) Rose plant (c) Telegraph plant (d) Lilly plant.
323) Mimosa pudica is also known as
(a) Nepenthes (b) Telegraph plant (c) Dancing plant (d) Thotta Surungi 324) The tip of the shoot is known as
(a) Choleoptile (b) Colon (c) Coleorhiza (d) Collar.
325) Peter Boysen-Jensen further developed Darwin's experiment in
(a) 1931 (b) 1913 (c) 1951 (d) 1941
326) The plant which respond to gravity is termed as
(a) Gravitropism (b) Thermotropism (c) Seismotropism (d) Phototropism
327) Shoots are said to
(a) Negative phototropism (b) Positive phototropism (c) Positive hydrotropism (d) Negative chemotropism
328) Rhizophora is an example for
(a) positive geotropism (b) Positive phototropism (c) Positive hydrotropism (d) Negative geotropism
329) Botanical name of common dandelian is
(a) Ipomoea alba (b) Mimosa pudica (c) Helianthus Annuus
(d) Taraxacum officinale
330) Among the following which one is an example for thigmonasty?
(a) Tulipa sp. (b) Mangifera indica (c) Leucaena sp (d) Brunnichia ovata
331) Nictinasty refers to
(a) light (b) water (c) darkness (d) temperature
332) Among the following which one protects our mother earth?
(a) O_2 (b) O_3 (c) O_4 (d) O_5

333) The end product of photosynthesis is
(a) Sucrose (b) fructose (c) glycogen (d) Glucose
334) The discovery of Jan Baptist van Helmont was on of the banyan tree
(a) Height (b) Mass (c) width (d) thickness
335) Von Helmont conducted his experiment in the year
(a) 1684 (b) 1468 (c) 1864 (d) 1648.
336) Priestley concluded that spring of mint had absorbed
(a) CO_2 (b) O_2 (c) NO_2 (d) SO_2
337) Chlorophyll is apigment
(a) Yellow (b) Orange (c) green (d) Blue.
338) To de-starch the plant, the plant should be kept is darkroom for
(a) 12 hrs (b) 6 hrs (c) 48 hrs (d) 24 hrs
339) The gas evolved during photosynthesis is
(a) CO_2 (b) H_2 (c) O_2 (d) N_2
340) Identify the emerald green sea slug
(a) Vaucheria litorea (b) Nepenthes (c) Droseta (d) Elysia chlorotica
341) Identify the false statement
(a) Photosynthesis takes place in mitochondria (b) Photo means "light"
(c) The end product of photo synthesis is glucose
(d) Chlorophyll is necessary for photosynthesis.
342) Sunlight can peretrate m into the ocean.
(a) 200m - 400m (b) 100m - 300m (c) 100m - 200m (d) 200m - 600m
343) Chlorophyll is present in the
(a) Root (b) Leaf (c) Stem (d) Flower
344) The air exchange takes place continuo sly through
(a) Grana (b) Stomata (c) Mitochondria (d) Stem
345) 90-95% of the water transpired from the leaves by
(a) Lenticular (b) Cuticular (c) polar (d) Stomatal transpiration
346)% of water is used to produce carbohydrates by the plants.
(a) 0.01% (b) 0.001% (c) 0.1% (d) 0.6%.
347) Maize plant transpire gallons of water during its life span.
(a) 34 (b) 44 (c) 64 (d) 54
348) Among the following which one is most biodiverse terrestrial place?
(a) Africa (b) America (c) Argentina (d) Amazon.
349) Photosynthesis occurs in most plants during the
(a) Summer season (b) Winter season (c) Night time (d) Day time
350) The byproduct of photosynthesis is .

(a) CO_2 (b) O_2 (c) H_2O (d) Starch
351) The dancing plant is
(a) Mimosa pudica (b) Desmodium gyrans (c) Helianthus annus (d) Rhizophora. 352) The dance of leaf is mesmerizing.
(a) Indian telegraph plant (b) Touch me not plant (c) Common Dandelion plant (d) Moon flower plant
353) The tip of the embryonic shoot is covered by protective sheath called
(a) primary shoot (b) radicle (c) coleoptile (d) auxin
354) flowers does exactly open in the night and hence closes in the day time.
(a) Taraxacum officinale (b) Ipomoea alba (c) Mimosa pudica
(d) Brunnichia ovata
355) The presents a spectacular example of thigmonasty.
(a) Coleus (b) Leucaena sp (c) Mangifera Indica (d) Dionaea musciphla
356) During the photosynthesis process the light energy is converted into energy.
(a) chemical (b) heat (c) wind (d) atomic
357) The end product of photosynthesis is glucose it has number of carbon molecues present.
(a) four (b) twelve (c) six (d) five
358) Living organism lives in the earth it need to carry on cellular respiration.
(a) carbon dioxide (b) chlorine (c) hydrogen (d) oxygen
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359) Leaf is tested for starch with solution. (a) sulphur (b) iodine (c) phosphrous (d) glucose 360) Identify macro nutrients from the following (a) Iron (b) Copper (c) Oxygen (d) Boron 361) A big tree falls in a forest but its roots are still in contact with the soil. The branches of this fallen tree straight up. This happens in response to (a) water and light (b) water and minerals (c) gravity and water (d) light and gravity 362) A plant is kept in a dark room for about 24 hours before conducting any experiment on photosynthesis in order to (a) remove chlorophyll from the leaf (b) remove starch from the leaves (c) ensure that photosynthesis occurred (d) to prove transpiration 363) Which is not an insect? (a) House fly (b) Bedbug (c) Mosquito (d) Spider

(a) Green glands (b) Sweat glands (c) Sebaceous gland (d) Mammary gland 366) The bilaterally symmetrical larvae which transform into radially symmetrical adult
is
(a) Bipinnaria (b) Trochophore (c) Tadpole (d) Polyp
367) Choose the correct terms related for Hemichordate
(a) Vermiform, unsegmented, triploblastic, ciliary feeders
(b) Vermiform, segmented, triploblastic, ciliary feeders
(c) Vermiform, unsegmented, diploblastic, ciliary feeders(d) Vermiform, unsegmented, triploblastic, filter feeders
368) Crop, gizzard and air sacs are seen in
(a) Fish (b) Frog (c) Bird (d) Bat
369) Tube like alimentary canal is found in
(a) Hydra (b) Earth worm (c) Starfish (d) Ascaris
370) During ecdysis which of the following is shed off
(a) Chitin (b) Mantle (c) Scales (d) Operculum
371) Cephalization is related to
(a) Head formation (b) Gut formation (c) Coelom formation (d) Gonad formation
372) The first systematic approach to the classification of living organisms was made by
(a) Hooker (b) Carolus Linnaeus (c) Robert (d) Lister
373) Carolus Linnaeus was abotanist.
(a) German (b) American (c) Swedish (d) Russian
374) Among the following which one is not herbivore
(a) Elephant (b) Cow (c) Zebra (d) Tiger
375) Identify which one is produces milk?
(a) Cat (b) Shark (c) Whale (d) Dolphin
376) Zoological name of Tiger is
(a) Rana hexa dactyla (b) Panthera tigris (c) Pila globosa (d) None
377) All life can be divided intomajor categories.
(a) one (b) two (c) three (d) four
378) Identify the single celled organism.
(a) Fern (b) Rabbit (c) Cat (d) Pond algae 379) How many organisms given below show radial symmetry? Earthworms,
grasshopper, rotifers jelly fish and star fish
(a) four (b) three (c) two (d) five
380) Consider the following four statements whether they are correct or wrong for the classification of animal kingdom.
(a) Mesoglea (b) presence or absence of alimentary canal
(c) on the basis of grade of organization (d) presence of haemolymph

381) How many of the following organism are coelmate? Earthworm, Leech, Amphious, Ascaris
(a) five (b) four (c) three (d) two
382) Identify the pseudocoelomatic organism.
(a) Tapeworm (b) Flatworm (c) Roundworm (d) Earthworm
383) From the following options select the statement which is not applicable to frog?
(a) They are amphibians (b) Three chambered heart (c) Presence of webbed feet
(d) Body is divided into head, thorax and abdomen.
384) Incomplete digestive system is found in
(a) Platyhelminthes (b) Nemathelminthes (c) Annelida (d) Arthropoda
385) Which among the following organism has water vascular system in its body?
(a) Sponge (b) Hydra (c) Fish (d) Star fish
386) Identify the most common larva of segmented worms?
(a) Bipinnaria (b) Tadpole (c) Trochophore (d) Ascon
387) Excretion takes place throughin insects.
(a) green glands (b) trachea (c) Malphigian tubules (d) Gills
388) Find the correct statement about frog.
(a) Heart is three chambered (b) Two chambered heart (c) 'S' shaped
(d) Heart is four chambered
389) Mesogloea is found in
(a) Amoeba (b) Hydra (c) Flatworm (d) Earthworm
390) Find the incorrect pair.
(a) Fauth and Matauraiana (b) Based and Based and Inc.
(a) Earth worm - Metamerism (b) Round worm - Pseudocoelom(c) Hydra Polyp - Medusa (d) Star fish - Asymmetrical
391) The blood vascular system of Arthropoda is
(a) Open type (b) Closed type (c) Partially open type (d) Partially closed type 392) Which one of these is wrong regaring earthworm?
(a) Metamerism (b) True coelom (c) unisexual (d) presence of fore limbs
393) The non-cellularjelly like layer is present in between ectoderm and endoderm in
coelenterates is
(a) Mesoderm (b) Coelom (c) Coelenteron (d) Mesoglea
394) The presence of tube feet is a characteristic feature of the phylum
(a) Arthropoda (b) Nemathelminthes (c) Mollusca (d) Echinodermata
395) Identify the incredible intelligent invertebrate?
(a) Pearl (b) Star fish (c) Octopus (d) Jelly fish
396) Which one of the following is not a mammalian character?
(a) Presence of mammary glands (b) Presence of Placenta
(c) Give birth to young ones (d) Heart is three chambered

397) The body of round worms are covered by
(a) scales (b) thick cuticle (c) thin cuticle (d) chitin
398) Among the following which one is the largest phylum of animal kingdom?
(a) Mollusca (b) Porifera (c) Coelenterates (d) Echinodermata
399) Which of the following is incorrect in class Reptilia?
(a) Epidermal scales (b) Four chambered heart (c) Lungs
(d) Eggs are covered with shells
400) The binomial name of star fish is
(a) Pila globosa (b) Asterias rubens (c) Hydra vulgaris (d) Amoebaproteus
401) The common name of Rana hexadactyla is
(a) Crow (b) Toad (c) Frog (d) Dog
402) The smallest bat lives in
(a) America (b) Thailand (c) Africa (d) Canada
403) Identify the phylum which exhibits polymorphism.
(a) Pinnelida (b) Arthropoda (c) Protozoa (d) Porifera
404) Adult male worm of Ascaris ranges from
(a) 10 to 15 cm (b) 15 cm to 30 cm (c) 15 cm to 25 cm (d) 15 cm to 35 cm
405) Identify in which sub-phylum shows tubiculous forms?
(a) Prochordata (b) Urochordata (c) Hemichordata (d) Cephalochordata
406) Notochord extends forward beyond the brain in
(a) Asicidian (b) Amphioxus (c) Balanoglossus (d) Star fish
407) Ascon worms belongs to
(a) invertebrates (b) vertebrates (c) Urochordates (d) Hemichordates
408) Lateral line sense organs are present in
(a) snake (b) birds (c) fish (d) jelly fish
409) Chordates are characterised by the presence of
(a) Notochord (b) Cuticle (c) Green glands (d) Feathers
410) Myotomes are present in
(a) Frog (b) Fish (c) Amoeba (d) Sponge
411) Among the following which are the first homeothermic vertebrates with spindle shaped body?
(a) Amphibians (b) Reptiles (c) Mammals (d) Aves
412) Identify the state bird of Tamil Nadu
(a) Emerald dove (b) Archaeopteryx (c) Crow (d) Pigeon
413) Pneumatic bones are the characteristic feature of
(a) Amphibians (b) Mammals (c) Reptiles (d) Aves
414) Which one is the Mammal like reptile?
(a) DImetrodon (b) Crocodile (c) Lizard (d) Snake

415) Albatross wing length is
(a) 3.3 m (b) 3.4 m (c) 3.5 m (d) 3.6 m
416) Larva of frog is
(a) Trochophore (b) Asicidian (c) Tadpole (d) Balanoglossus
417) The arrow poison frog is found in
(a) Cuba (b) Japan (c) Malasiya (d) Thailand
418) The length of Bluewhale is
(a) 15 m (b) 20 m (c) 25 m (d) 35 m
419) Phillippine goby is found in
(a) marine water (b) brackish water (c) salt water (d) fresh water 420) The body of soft bodied animals are covered by
(a) Spicules (b) Scales (c) Bristles (d) Mantle
421) Find the correct sequence
(a) Frog \longrightarrow Fish \longrightarrow Snake \longrightarrow Dove \longrightarrow Lion
(b) Fish \longrightarrow Snake \longrightarrow Frog \longrightarrow Lion \longrightarrow Dove
$\text{(c)} \;\; \text{Fish} \longrightarrow \text{Snake} \longrightarrow \text{Frog} \longrightarrow \text{Lion} \longrightarrow \text{Crow}$
(d) Fish \longrightarrow Frog \longrightarrow Snake \longrightarrow Dove \longrightarrow Lion
422) Among the following which one is radial symmetry?
(a) Snail (b) Grasshopper (c) Starfish (d) Peacock
423) have true coelom.
(a) Earth worm (b) Tape worm (c) Round worm (d) Grass hopper
424) Phylum body wall contains spicules which form the skeletal frame work.
(a) Protozoa (b) Porifera (c) Coelenterata (d) Platyhelminthes
425) In platyhelminthes animals, the excretion and osmoregulation occur through cells
(a) cuticle (b) body (c) nerve (d) flame
426) is an intestinal infection in mammals caused by an adult tape worm.
(a) Taeniasis (b) Fever (c) Head ache (d) Trochopore
427) Which one is not related annelida among the following?
(a) In the phylum include Earthworms and leeches
(b) The word metamerism is related to in the phylum
(c) The insect has to shed it periodically in a process called moulting
(d) The body is covered by moist outer cuticle
428) These are phylum arthropoda animals
 (a) Insects, Spiders, Millipedes, Centipedes (b) Earthworm, Leeches, Round, Worms (c) Star fish, See urchin, Pearl oyster, Snail
(d) Sea lily, Asicidian, Amphioxus, Balanogiossus.
429) The most common larva of phylum mollusca is

(a) Cnidoblasts (b) Veliger larva (c) Bipinnaria larva (d) Ascidian
430) Echinodermata animals are locomoted through
(a) Pseudopodia (b) Cilia (c) Wings (d) Tube feet
431) is a costly dish served in foreign countries.
(a) Star fish (b) Sea urchin (c) Sea cucumber (d) Pearl oyster
432) Balanoglossus is classified which sub phylum among the following.
(a) Hemichordata (b) Cephalochordata (c) Urochordata (d) None of the above 433) body is enveloped by a tunic or test.
(a) Balanoglossus (b) Amphioxus (c) Ascidian (d) Exocoetus
434) can swim faster than a cheetah can run.
(a) Exocoetus (b) Sailfish (c) Star fish (d) Pearl oyster
435) The pisces have chambered heart
(a) 4 (b) 3 (c) 2 (d) no heart
436) is the binomial name of cockroach.
(a) Lampito mauritii (b) Hirudinaria grambosa (c) Asterias rubens (d) Periplaneta americana
437) October is declared as Global Iodine deficiency day.
(a) 20st (b) 21st (c) 19th (d) 18th
438) Who introduced the term vitamin?
(a) Dr. Joseph (b) Dr. Paul (c) Dr. Jagadesh (d) Dr. Funk
439) Identify the trace element
(a) Iron (b) Iodine (c) Calcium (d) Potassium
440) Lipids provide kcal energy per gram.
(a) 8 k Cal (b) 9 k Cal (c) 10 k Cal (d) 12 k Cal
441) Fats are
(a) Glyceric acid (b) mono glycerides (c) diglycerides (d) triglycerides
442) Riboflavin is other name of vitamin
(a) B_1 (b) B_2 (c) B_6 (d) B_{12}
443) Scaly skin, nerve disorders are due to the deficiency of
(a) Vitamin B_3 (b) Vitamin B_6 (c) Vitamin B_{12} (d) Vitamin B_2
444) Reproductive abnormalities are due to the deficiency of vitamin
(a) A (b) D (c) E (d) K
445) The temperature required for deep freezing is
(a) -23°C to -30°C (b) -23°C to -28°C (c) -23°C to -25°C (d) -23°C to -32°C
446) Diarrhoea is caused due to the deficiency of vitamin
(a) B_6 (b) B_3 (c) B_{12} (d) B_2
447) Identify the polysaccharide.
(a) Glucose (b) Fructose (c) Cellulose (d) Galactose

448) The polysaccharide found in liver and muscles is
(a) Starch (b) Cellulose (c) Chitin (d) Glycogen
449) Defect related to high storage of vitamin is
(a) Scurvy (b) Beriberi (c) Hyper vitaminosis (d) Pellagra
450) Any disease caused by the presence of excess vitamin is
(a) Night blindness (b) Osteoporosis (c) Vitaminosis (d) Hyper vitaminosis 451) Which one of the following is a disaccharide?
(a) Maltose (b) Starch (c) Chitin (d) Cellulose
452) Identify the monosaccharide
(a) Amylose (b) Sucrose (c) Glucose (d) Lactose 453) Marasmus is caused due to the deficiency of
(a) Starch (b) Carbohydrates (c) Fats (d) Proteins
454) Blood clot is prevented by the vitamin
(a) A (b) D (c) E (d) K
455) Dryness of cornea is due to
(a) Pellagra (b) Beriberi (c) Xerophthalmia (d) Scurvy
456) Vitamin E is otherwise known as
(a) Riboflavin (b) Thiamine (c) Tocopherol (d) Calciferol
457) Which vitamin causes bow legs?
(a) Vitamin A (b) Vitamin C (c) Vitamin D (d) Vitamin E
458) (c) Vitamin B_1 deficiency causes
(a) Rickets (b) Beri-beri (c) Anaemia (d) Osteomalacia
459) Cheilosis is caused due to the deficiency of the vitamin
(a) B_1 (b) B_2 (c) B_6 (d) B_{12}
460) Whole wheat, meat, vegetable oil, milk is rich in vitamin
(a) E (b) A (c) D (d) K
461) Proteins are made of
(a) Ascorbic acid (b) Amino acid (c) Citric acid (d) Folic acid
462) Plant cell wall is made up of
(a) Starch (b) Glucose (c) Cellulose (d) Chitin
463) Lipases are
(a) Carbohydrates (b) Vitamins (c) Minerals (d) Enzymes
464) Lipases are enzymes which breaks down
(a) Proteins (b) Fats (c) Carbohydrates (d) Food
465) How many major minerals are there in the human body?
(a) 4 (b) 6 (c) 5 (d) 3
466) Identify the protein deficiency disease
(a) Marasmus (b) Pellagra (c) bow legs (d) Goitre

467) Without particular metabolic processes could not exist.
(a) Food (b) Rest (c) Sleep (d) Water
468) Among the following which disease affect children between 1 - 5 years.
(a) Marasmus (b) Kwashiorkar (c) Scurvy (d) Pellagra
469) Identify the mineral which regulates nerve and muscles activity?
(a) Iron (b) Iodine (c) Sodium (d) Potassium
470) is important component of haemoglobin.
(a) Iodine (b) Iron (c) Calcium (d) Potassium
471) Osteoporosis in adults is due to the deficiency of
(a) Calcium (b) Sodium (c) Potassium (d) Iron
472) Internal factor which is responsible for food spoilage is
(a) catabolic activities (b) anabolic activities (c) metabolic activities
(d) enzymatic activities
473) Dehydration is the process of
(a) addition of water (b) removal of water (c) heating of water
(d) freezing of water
474) Identify the gas which prevents the growth of fungus.
(a) Nitrogen (b) Oxygen (c) Carbon-di-oxide (d) Hydrogen
475) Pasteurization involves boiling of milk to a temperature of °C.
(a) 36° (b) 46° (c) 63° (d) 93°
476) Among the following which one is the synthetic preservative?
(a) Sodium benzoate (b) Sodium tri carbonate (c) Sodium tetra sulphate
(d) Sodium monasulphate
477) Among the following which one comes under quality control agency?
(a) ISI (b) PSI (c) ESI (d) MSI 478) Nerve impulses do not get transmitted due to the deficiency of
(a) Sodium (b) Calcium (c) Potassium (d) Iodine 479) Direction: In the following question, a statement of a Assertion is given and a
corresponding state of a Reason is given just below it. Of the statements given below, mark the correct answer as:
Assertion: Haemoglobin contains iron.
Reason: Iron deficiency leads to anaemia
(a) Assertion and reason are true and the Reason is the correct explanation of Assertion
(b) Assertion and Reason are true but Reason is not the correct explanation of Assertion
(c) Assertion is true but Reason is false (d) Both Assertion and Reason is false
480) Direction: In the following question, a statement of a Assertion is given and a corresponding state of a Reason is given just below it. Of the statements given below, mark the correct answer as:

Reason: ISI is a symbol of quality
(a) Assertion and reason are true and the Reason is the correct explanation of Assertion
(b) Assertion and Reason are true but Reason is not the correct explanation of Assertion
(c) Assertion is true but Reason is false (d) Both Assertion and Reason is false
481) are the chief source of energy.
(a) Carbohydrates (b) Proteins (c) Fats (d) Minerals
482) also known as triglycerides are esters of free fatty acid chains and glycerol.
(a) Carbohydrates (b) Proteins (c) Fats (d) Minerals
483) An organic chemical compound is called
(a) proteins (b) vitamins (c) fats (d) minerals
484) is the important component of haemoglobin.
(a) Potassium (b) Iodine (c) Iron (d) Calcium
485) gas is filled in air tight packets of potato wafers and other
food products.
(a) Oxygen (b) Chlorine (c) Carbon dioxide (d) Nitrogen
486) Pasteurisation helps in avoiding spoilage of
(a) honey (b) orange juice (c) milk (d) curd
487) Addition of removes the moisture content in the food by the process of osmosis.
(a) water (b) salt (c) lime juice (d) H ₂ SO ₄
488) The world food day is celebrated on
(a) 16 th october (b) 16 th June (c) 15 th October (d) 15 th July
489) Odd one out
(a) Vinegar (b) Citric acid (c) Potassium chloride (d) Sodium bicarbonate
490) Chemicals like to ripen mangoes.
(a) potassium sulphate (b) potassium iodide (c) sulphuric acid
(d) calcium carbide
491) colour is defect the presence of starch in milk.
(a) Green (b) Blue (c) Red (d) Orange
492) is certifies agricultural and marketing.
(a) FSSAI (b) FPO (c) AGMARK (d) ISI
493) The specific heat capacity of water is
(a) $4200 \mathrm{Jkg^{-1}K^{-1}}$ (b) $420 \mathrm{Jg^{-1}K^{-1}}$ (c) $0.42 \mathrm{Jg^{-1}K^{-1}}$ (d) $4.2 \mathrm{Jkg^{-1}K^{-1}}$
494) Two cylinders of equal height and radius are made of copper and aluminium. Which of them conducts heat faster?
(a) Copper rod (b) Aluminium rod (c) Both of them (d) None of them

Assertion: AGMARK is a quality control agency

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495) Water is used as a coolant because it
(a) is inexpensive (b) is easily available (c) is a good conductor of heat
(d) has a high specific heat capacity
496) The amount of heat required to raise the temperature through 1 ^o C is called
(a) thermal energy (b) calorie (c) heat capacity (d) specific heat capacity
497) The temperature at which a liquid gets converted into its vapour state is called its
(a) melting point (b) boiling point (c) dew point (d) freezing point
498) Sweating causes cooling because water has a
(a) high specific heat (b) low specific heat (c) high latent heat of fusion
(d) high latent heat of vaporisation
499) Which of the following is true?
(a) 1 J = 412 calorie (b) 1 J = 0.24 calorie (c) 1 calorie = 4.2 J (d) Both b and c
500) Ice does not melt rapidly because of
(a) high specific heat capacity (b) high latent of fusion (c) high heat capacity
(d) high latent heat of fusion
501) Which one of the following scales has lower fixed point at 0°C?
(a) Kelvin scale (b) Fahrenheit scale (c) Celsius scale (d) All of these
502) When we heat one end of an iron rod, its other end also get heated. Can you say, Which one of the following is behind this?
(a) Convection of heat (b) Radiation of heat (c) Insulation of heat
(d) Conduction of heat
503) In which of the following, chemical energy is converted into heat energy?
(a) Heater (b) Refrigerators (c) Candle (d) Motor
504) On a cold day, it is hard to open the lid of a tight container. But when you gently heat the neck you can easily open the lid. why?
(a) On heating Glass expands and lid contracts
(b) On heating lid expands more than the neck and thus slides easily
(c) Neck becomes slippery on heating (d) Lid of the bottle cannot bear the heat.
505) Molecules are generally at motion and poss energy.
(a) light (b) heat (c) potential (d) kinetic
506) When heat is added to a substance the molecules energy.
(a) loss (b) gain (c) equal (d) none of these
507) is greater for liquids than for solids.
(a) Expansion (b) Temperature (c) Chemical change (d) Change in state
508) In molecules are closely arranged.
(a) gas (b) Iiquid (c) solid (d) oxygen
509) is used in thermometers because it is a good conductor of heat.

(a) Glass (b) Water (c) Alcohol (d) Mercury
510) Tall are kept in kitchen and industrial furnaces.
(a) chimneys (b) hot balloon (c) cooler (d) thermometer
511) Transfer of heat energy from the sun reaches us in the form of
(a) convection (b) radiation (c) conduction (d) none of these
512) surface absorb more heat from the surroundings.
(a) White (b) Black (c) Red (d) Yellow
513) Temperature is measured with a
(a) Voltmeter (b) Ammeter (c) Thermometer (d) Galvanometer
514) The formula for converting a Fahrenheit scale to celsius scale is
(a) $F=rac{9}{5}C+32$ (b) $C=rac{5}{9}(\ F-32)$ (c) $k=C+273.15$ (d) $C=K-273.15$
515) The specific heat capacity of water in gaseous state is J kg ⁻¹ k ⁻¹ .
(a) 460 (b) 2100 (c) 504 (d) 4200
516) The temperature at which a liquid changes its state to gas is called
(a) melting point (b) condensation (c) vaporization (d) boiling point
517) The following is not a safety device.
(a) Fuse (b) Trip switch (c) Ground connection (d) Wire
518) In India the frequency of alternating current is
(a) 220 Hz (b) 50 Hz (c) 5 Hz (d) 100 Hz
519) A current of 2A passing through conductor produces 80 J of heat in 10 seconds. The resistance of the conductor is
(a) 0.5Ω (b) 2Ω (c) 4Ω (d) 20Ω
520) The resistance of a straight conductor is independent of
(a) temperature (b) material (c) cross sectional area (d) shape of cross section
521) Two resistances R_1 and R_2 are connected is parallel. Their equivalent resistance is
(a) $R_{1+}R_{2}$ (b) $\frac{R_{1}R_{2}}{R_{1}+R_{2}}$ (c) $\frac{R_{1}+R_{2}}{R_{1}R_{2}}$ (d) $\sqrt{R_{1}+R_{2}}$
522) If in the circuit, power dissipation is 150 W, then R - is
R 202 15V
(a) 2Ω (b) 6Ω (c) 5Ω (d) 4Ω
523) The resistance of a conductor is R. If its length is doubled, then its new resistance will be
(a) R (b) 2R (c) 4R (d) 8R
524) Assertion (A) Electric current will not flow between two charged bodies when connected if their charges are same. Reason (R) Current is the rate of flow of charge.

(a) If both assertion and reason are true and reason is the correct explanation of assertion
(b) If both assertion and reason are true but reason is not the correct explanation of assertion.
(c) If assertion is true but reason is false (d) If assertion is false but reason is true.
525) Assertion (A) : A bird perches on a high power line and nothing happens to the bird. Reason (R) : The level of bird is very high from the ground.
(a) If both assertion and reason are true and reason is the correct explanation of assertion.
(b) If both assertion and reason are true but reason is not the correct explanation of assertion.
(c) If assertion is true but reason is false (d) If assertion is false but reason is true 526) In an atom the protons are charged.
(a) negative (b) positive (c) neutral (d) no charge
527) If an electron is removed from the atom, it becomes charged.
(a) positive (b) negative (c) neutral (d) none of these
528) A system has two charges +7C and - 4C. The net charge of the system is
(a) +7C (b) -4C (c) -3C (d) +3C
529) Electro static forces between two point obeyIaw.
(a) Newtons first (b) Newtons second (c) Newton's third (d) Ohms law
530) Normally potential difference is produced by a
(a) battery (b) bulb (c) switch (d) tube light
531) is an instrument used to measure the strength of the electric current in a circuit.
(a) Galvanometer (b) Ammeter (c) Voltmeter (d) Watt meter
532) Among the following is the insulator.
(a) copper (b) aluminium (c) polymer (d) iron
533) Among the following is the symbol of resistance.
(a) (b) (c) (d)
534) 5Ω , 10Ω , 15Ω resistors are connected in a series connection the effective resistance is
(a) 30Ω (b) 15Ω (c) 3Ω (d) 10Ω
535) Which one of the following is not an electric heating appliances?
(a) iron box (b) water heater (c) toaster (d) mosquito bat
536) An electric generator converts
(a) electrical energy into mechanical energy (b) mechanical energy into heat energy
(c) electrical energy into electrical energy
(d) mechanical energy into electrical energy
537) The direction of magnetic field around a straight conductor carrying current can be determined by

(a) Fleming's left hand rule (b) Lenz's law (c) Right hand thumb rule
(d) Fleming's right hand rule 538) The magnetic field produced due to a circular wire at its centre is
538) The magnetic field produced due to a circular wire at its centre is
(a) at 45° to the plane of the wire (b) at 60° to the plane of the wire
(c) in the plane of the wire (d) perpendicular to the plane of the wire 539) A magnetic field exerts no force on
(a) stationary electric charge (b) a magnet
(c) an electric charge moving perpendicular to its direction
(d) an unmagnetised iron bar
540) At the centre of a magnet, the magnetism is
(a) zero (b) same as the poles (c) maximum (d) minimum
541) Induced current flows through a coil
(a) more that the period during which flux changes through it.
(b) less than the period during which flux changes through it
(c) only for the period during which flux changes through it (d) None of the above
542) The produces its own magnetic field.
(a) Pen (b) Tree (c) Earth (d) Bird
543) Magnetic flux unit is
(a) Tesla (b) Weber (c) Weber/m ² (d) farad
544) To change the direction of the current we use a small device called
(a) commutator (b) transformer (c) carbon brushes (d) galvanometer
545) A cannot be used with the source of direct current.
(a) transformer (b) meter (c) bulb (d) motor
546) An contain an electromagnet consisting of coils insulated wire around iron rods.
(a) iron box (b) bulb (c) electric bell (d) tube light
547) The increasing order of the energy of subshells is
(a) $s > p > d > f$ (b) s (c) s (d) p
548) If the electronic configuration of an element is $1s^2 2S^2 p^6 3s^2 3p^1$, then it will occupy block of the periodic table.
(a) s (b) p (c) d (d) f
549) Noble gases are placed in group in the modern periodic table.
(a) 13^{th} (b) 18^{th} (c) 17^{th} (d) 2^{nd}
550) Group 16 elements are collectively called as
(a) chalcogen family (b) carbon family (c) halogens (d) nitrogen family
551) The maximum number of electrons that can be accommodated in s, p ,d, and f subshells are
(a) 14, 10, 6, 2 (b) 6, 10, 2, 14 (c) 2, 6, 10, 14 (d) 6, 2, 14, 10
552) d-block elements are otherwise known as

(a) transition elements (b) inner transition elements (c) halogens
(d) alkali metals
553) Which block of the periodic table contains metals, non-metals and metalloids?
(a) s (b) p (c) d (d) f
Assertion (A): Group 2 elements in the modern periodic table are called alkaline earth
metals. Reason (R): The oxides of group 2 elements produce alkaline solutions when they are
dissolved in water
(a) A is right R is wrong (b) R explains A (c) R does not explain A
(d) R is right A is wrong
555) Assertion (A): Noble gases are chemically inert in nature. Reason (R): Noble gases have stable electronic structures
(a) Both A & R are right (b) Both A & R are wrong (c) A is right R is wrong
(d) A is wrong R is right
556) Assertion (A): Non-metals are electronegative. Reason (R): Non-metal lose electrons to form cation
(a) Both A & R are right (b) Both A & R are wrong (c) A is right R is wrong
(d) A is wrong R is right
557) arranged the elements into groups containing three elements.
(a) Dobereiner (b) Newland (c) Mendeleev (d) Moseley
558) arranged 56 elements known at that time according to his law
of periodicity.
(a) Dobereiner (b) Newland (c) Mendeleev (d) Moseley
559) There is no place for in the Mendeleev table.
(a) isotope (b) Lithium (c) Hydrogen (d) Berylium
560) IUPAC secretariat is in
(a) China (b) Japan (c) India (d) America
561) The 13 th group elements are called as
(a) Nitrogen family (b) Carbon family (c) Boron family (d) Oxygen family
562) is the best example of alkali metal.
(a) Calcium (b) Sodium (c) Magnesium (d) Nickel
563) Among the following which non metal has high melting point?
(a) Diamond (b) Sodium (c) Pottassium (d) Aluminium
564) reacts with steam to form their oxides and hydrogen.
(a) Copper (b) Nickel (c) Iron (d) Silver
565) react with halogen to form ionic halides.
(a) Non metals (b) Metals (c) Salcogen (d) Actinides
566) reacts with water to form carbon monoxide and hydrogen.
(a) Copper (b) Nitrogen (c) Aluminium (d) Carbon
567) Atoms having 1,2 or 3 electrons in its valence shell will readily form

(a) cation (b) anion (c) Calcium (d) anion
568) Which of the following atom can exist independently?
(a) Magnesium (b) Chlorine (c) Hydrogen (d) Neon
569) Alkali and alkaline earth metals form compound when they react with nonmetals
(a) ionic (b) covalent (c) co-ordinate covalent (d) all the above 570)compounds are highly brittle
(a) Ionic (b) Covalent (c) Co-ordinate covalent (d) Covalent
571) The bond which is formed by mutual sharing of electrons is calledbond.
(a) ionic (b) covalent (c) co-ordinate covalent bond (d) all the above
572)is an example of a covalent compound having high melting point
(a) Magnesium oxide (b) Silicon carbide (c) Ammonia (d) All the above
573) Which of the following compound(s) possesses high melting point?
(a) NaCI (b) MgCI ₂ (c) CCl ₄ (d) Both a & b
574) Statement (A) Ionic compounds do not conduct electricity in solid state. Reason (B) The ions in ionic compounds are tightly held together by stong electrostatic force of attraction and they can not move freely
(a) B explains A (b) B do not explain A (c) B is wrong A (d) A is right B is wrong
575) Statement (A): Covalent compounds are bad conductor of electricity. Reason (B) Covalent compounds contain charged particles (ions)
(a) B explains A (b) B does not explain A (c) Both A & B are right
(d) Both A & B are wrong
576) Electronic configuration of Argon is
(a) 2,8,18,8 (b) 2,8 (c) 2,8,8 (d) 2,6
577) Except all other noble gases have eight electrons in their valence shell.
(a) Xenon (b) Argon (c) Neon (d) Helium
578) Atomic number of sodium is
(a) 11 (b) 8 (c) 7 (d) 5
579) has five valence electrons.
(a) Beryllium (b) Nitrogen (c) Oxygen (d) Carbon 580) The attractive forces being electrostatic the bond is called bond.
(a) Electrostatic (b) Electrovalent (c) Ionic (d) Hydrogen 581) bond is forced between a metal and non metal.
(a) Ionic (b) Covalent (c) Coordinate (d) Metallic
582) Chemical formula of Benzene is
(a) CCl_4 (b) $LiCl$ (c) CH_4 (d) C_6H_6
583) Formation of hydrogen molecule is example of bond.
(a) Ionic (b) Covalent (c) Coordinate (d) Hydrogen
584) pH value of human blood is

(a) 7.0 (b) 7.4 (c) 7.6 (d) 7.6
585) The nature of the tooth paste commonly used is in nature
(a) acidic (b) basic (c) neutral (d) neutral
586) You are given pure water to test the pH value using pH paper. It shows colour
(a) White (b) black (c) green (d) black
587) Acid secreted in our stomach is
(a) hydrochloric acid (b) sulphuric acid (c) nitric acid (d) carbonic acid
588) Hydrochloric Acid reacts with metal bicarbonates to give
(a) metal chloride (b) water (c) carbon di - oxide (d) all the above
589) metals do not react with HCI or HNO ₃
(a) Gold & Magnesium (b) Silver & Magnesium (c) Gold & Silver (d) Zinc & Silver
590) The molar ratio of hydrochloric acid and nitric acid in aquaregia is
(a) 1:3 (b) 6:3 (c) 2:3 (d) 3:1
591) Bases ionise in water to formions
(a) H^+ (b) H_3O^+ (c) OH^- (d) O^{2-}
592) Which of the following are the is a weak bases?
(a) NH ₄ OH & NaOH (b) Ca(OH) ₂ & KOH (c) NH ₄ OH & Ca(OH) ₂ (d) NaOH & KOH
593) NaOH & KOH are
(a) strong bases (b) metal Oxides (c) weak bases (d) diacidic bases
594) Which of the following solution is soapy to touch?
(a) Acidic (b) Basic (c) Salt (d) Aquaregia
595) Which of the following solutions do not conduct electricity?
(a) alcohol (b) glucose (c) sulphuric acid (d) both a & b
596) The pH value of neutral solution is
(a) $= 7$ (b) < 7 (c) none of the above (d) -7
597) Sour taste chemical compound is known as:
(a) acid (b) salt (c) base (d) none of these
598) Bee and Ant has formic acid. Tomato containacid.
(a) malic (b) citric (c) tartaric (d) oxalic
599) When Hydrogen chloride is dissolved in water we get ions in aqueous solution.
(a) $\mathrm{H}^+, \mathrm{NO}_2^-$ (b) $\mathrm{H}^+, \mathrm{Cl}$ (c) $\mathrm{C}^+, \mathrm{O}^-$ (d) $\mathrm{H}_2^+, \mathrm{SO}_4$
600) Among the following which one is monobasic acid?
(a) H_4SO_4 (b) H_2CO_3 (c) HCl (d) HNO_3
601) has four hydrogen atoms but only one can be replaced.
(a) H_2SO_4 (b) H_2CO_3 (c) CH_3COOH (d) H_3PO_4

(a) NaOH (b) H ₂ SO ₄ (c) HCI (d) HNO ₃ 504)	(a) Oxalic acid (b) Citric acid (c) Carbonic acid (d) Nitric acid
[304]	603) is a aqueous solution having soapy touch.
(a) Sodium hydroxide (b) Ammonium hydroxide (c) Calcium hydroxide (d) Magnesium hydroxide (d) Magnesium hydroxide (e) Magnesium hydroxide (f) Magnesium hydroxide (f) Magnesium hydroxide (f) Acids have pH. (a) greater than 7 (b) less than 7 (c) equal to 7 (d) less than 10 (f) foot (f) soil is suitable for the growth of Citrus fruit trees. (a) Acidic (b) Neutral (c) Alkaline (d) None (f) foot (f) is used in soda acid fire extinguishers. (a) Common salt (b) Baking soda (c) Washing soda (d) Bleaching powder (f) foot (a) Immature cells which are in a state of division and growth (b) Mature cells (c) Non-living cells (d) Sclerenchyma cells (c) Non-living cells (d) Sclerenchyma cells (f) Score capsule of (f) foot (f)	(a) NaOH (b) H_2SO_4 (c) HCl (d) HNO_3
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	(iii) Cardiac muscles
(iv) Skeletal muscles	(ii) Smooth muscles (iv) Skeletal muscles
(a) (i) and (ii) (b) (ii) and (iii) (c) (iii) and (iv) (d) (i) and (iv)	
517) Tendon connects	

(a) cartilage with muscles (b) bone with muscles (c) ligament with muscles
(d) bone with bone
618) In a certain type of cell division the diploid number of chromosome is reduced to half. This kind of division occurs in
(a) testis (b) ovary (c) both ovary and testis (d) all body cells
619)is derived from ground meristem
(a) Cortex (b) Epidermis (c) Xylem (d) Cambium
620) The function of phloem fibres is
(a) passage of food (b) store food (c) mechanical strength (d) preparation of food
621) The epithelium forms a selective permeable membrane surface.
(a) Ciliated (b) Squamous (c) Cuboidal (d) Glandular
622) Elastic structures which connect bone to bone are called
(a) muscles (b) tendons (c) ligaments (d) areolar tissue
623)is seen in unicellular animals.
(a) Mitosis (b) mieosis (c) Amitosis (d) none of the above
624) Disappearance of spindle fibres is seen in
(a) metaphase (b) prophase (c) anaphase (d) telophase
625) Theis a long fibre like process
(a) dendron (b) axon (c) dendrite (d) neurilemma
626) Bouquet stage refers to
(a) diakinesis (b) leptotene (c) zygotene (d) pachytene
627) The term meristem is derived from word.
(a) Latin (b) Sanskrit (c) Greek (d) Scientific
628) Meristematic tissue undergoes cell division.
(a) mitotic (b) meiotic (c) amitotic (d) none
629) meristem lies between the region of permanent tissues and is part of primary meristem.
(a) Apical (b) Intercalary (c) Lateral (d) Procambium
630) In aquatic plants, Parenchyma possess intracelluar air space and is named as
(a) Chlorenchyma (b) Collenchyma (c) Sclerenchyma (d) Aerenchyma
631) In potato parenchyma vacuoles are filled with
(a) protein (b) fat (c) starch (d) vitarnins
632) are also common in fruits and seeds.
(a) Fibres (b) Sclereids (c) Tracheids (d) Vessels
633) cells are elongated, lignified and pointed at both ends.
(a) Xylem parenchyma (b) Xylem vessels (c) Xylem fibres (d) Xylem tracheids
634) The are living cells found in phloem.
(a) sieve elements (b) companion cells (c) phloem fibres (d) phloem parenchyma

635) The study of tissue is known as.
(a) Cytology (b) Histology (c) Physiology (d) Cell biology
636) epithelium is found in moist surface of buccal cavity and pharynx.
(a) Squamous (b) Cuboidal (c) Ciliated (d) Compound
637) The matrix is composed of large cartilage cells called
(a) Chondrocytes (b) Tendons (c) Osteocytes (d) Lamellae
638) Red blood corpuscles are otherwise called as
(a) Leucocytes (b) Granulocytes (c) Erythrocytes (d) Lymphocytes
639) Cardiac muscle is a contractile tissue found in the
(a) Kidney (b) Liver (c) Stomach (d) Heart
640) Nerve cells are developed from glial cells by
(a) Oogenesis (b) Neurogenesis (c) Spermatogenesis (d) none
641) In which stage of mitotic cell division do nuclear membrane and nucleolus reappear in daughter nucleus?
(a) Prophase (b) Metaphase (c) Anaphase (d) Telophase
642) last for about 120 days and are replaced.
(a) Skin cells (b) Red blood cells (c) Bone cells (d) Liver cells
643) In meiotic cell division chromosome pairing takes place in stage.
(a) leptotene (b) zygotene (c) pachytene (d) diplotene
644) are used in the treatment of certain degenerative diseases.
(a) Stem cells (b) Liver cells (c) Bone cells (d) Body cells
645) Excretion means
(a) taking in oxygen from the air and giving out carbon dioxide
(b) disposal of harmful germs and worms from our body
(c) distribution of digested food to the body tissues through blood
(d) removal of nitrogenous wastes generated in the body
646) In the dental formula $\frac{2}{2}$, $\frac{1}{1}$, $\frac{2}{2}$, $\frac{3}{3}$ refers to
(a) incisors (b) molas (c) premolars (d) cantne
647) Lysozyme is seen in
(a) gastric juice (b) intestinal juice (c) Bile (d) saliva
648)is the smallest gland
(a) Pancreas (b) Sublingual (c) Parotid (d) Submaxillary
649) Curdling of milk protein is done by
(a) pepsin (b) rennin (c) lipase (d) maltase
650)acts as birth canal.
(a) Fallopian tube (b) Vagina (c) Uterus (d) Vasdeferens
651) The act of bringing swallowed food back to the mouth is called
(a) egestion (b) ingestion (c) micturition (d) regurgitation

652) Gastric glands do not secrete
(a) renin (b) pepsin (c) lipase (d) none of the above
653) Organ and Organ system have appeared first in the phylum.
(a) Platyhelminthes (b) Porifera (c) Annelida (d) Arthropoda
654) The process of nutrition begins with intake of food called
(a) digestion (b) ingestion (c) assimilation (d) egestion
655) is the passage of food starting from the mouth and ends with the anus.
(a) Buccal cavity (b) Malphigian corpuscle (c) Renal tubule (d) Alimentary canal
656) pairs of salivary glands are present in the mouth cavity.
(a) One (b) Two (c) Three (d) Four
657) is a muscular membranous canal about 22 cm in length.
(a) Small intestine (b) Oesophagus (c) Large intestine (d) None of these
658) receives the bile duct and pancreatic duct.
(a) Ileum (b) Jejunum (c) Duodenum (d) Colon
659) is the largest digestive gland of the body.
(a) Pancreas (b) Stomach (c) Liver (d) Parotid gland
660) In human is the major excretory product.
(a) ammonia (b) urea (c) carbon dioxide (d) lactic acid
661) Stores urine temporarily.
(a) Urethra (b) Ureter (c) Kidney (d) Urinary bladder
662) maintains the osmotic pressure in blood and tissues.
(a) Liver (b) Skin (c) Kidney (d) Anus
663) Urine is expelled out through the
(a) urethra (b) ureter (c) urinary bladder (d) nephron
664) Male gonads produce male gametes like
(a) ovum (b) sperm (c) testes (d) ovaries
665) is the smallest cell in the male body.
(a) Neuron (b) Nephron (c) Sperm (d) Body cells
666) The male sex hormone is
(a) testosterone (b) oestrogen (c) progestrone (d) pepsin
667)plays an important role in a computer as an inpute device
(a) Keyboard (b) Scanner (c) Printer (d) Mouse
668)is an essentional part of the computer
(a) Keyboard (b) CPU (c) Mouse (d) Wi-Fi
669) A bit has a single binary value either or
(a) 1,-1 (b) 0,1 (c) 1,2 (d) 2,0
670) Personal computer comes under the computer.

(a) mainframe (b) rrum (c) micro (d) super
671)cable transmits high quality and high bandwidth streams of audio and
video
(a) VGA (b) USB (c) Data (d) HDMI
672)is used to connect the speaker to the computer
(a) Audio jack (b) Power card (c) Data cable (d) USB cable
673)cable helps to establish internet connectivity.
(a) Power card (b) Audio jack (c) Ethernet (d) USB
674) Unit of thrust is
(a) Newton (b) Pascal (c) cm ³ (d) km
675) Instrument used to measure relative density
(a) Hydrometer (b) Lactometer (c) Barometer (d) Pycnometer
676) In CGS system pressure is measured in
(a) dyne cm ⁻² (b) dyne (c) dyne cm ⁻³ (d) None
677) Heavy trucks are fitted with six to eight wheels, As area increases, Pressure will
·
(a) decrease (b) increase (c) remains the same
678) Air gets as we go down below the sea level like mines
(a) heavier (b) thinner (c) greater (d) lesser
679) An iron ball is weighed in air and then in water by a spring balance.
(a) Its weight in air is more than in water. (b) Its weight in water is more than in air
(c) Its weight is same both in air and water. (d) Its weight is zero in water.
680) When a solid is partly or wholly immersed in a fluid, it experiences an apparent loss in
(a) weight (b) buoyant force (c) liquid displaced (d) None
681) A huge ship of heavy mass on sea water.
(a) sink (b) float (c) both float and sink (d) none of these
682) The inter molecular force in are strong.
(a) liquid (b) gas (c) solids (d) oxygen
683) The force per unit area acting on an object concerned is called
(a) pressure (b) density (c) temperature (d) velocity
684) In CGS system force is measured in
(a) Newton (b) Pascal (c) Meter (d) Dyne
685) The atmospheric layer height is nearly km.
(a) 200 (b) 100 (c) 300 (d) 400
686) Human is adapted to breath at a pressure of sea level.
(a) kidney (b) lungs (c) brain (d) liver
687) Atmospheric pressure of mount Everest is k pa.
(a) 33.7 (b) 101.3 (c) 106.7 (d) 62.5

588) On a typical day at sea level the height of the mercury column is mm.
(a) 650 (b) 760 (c) 320 (d) 7600
589) One bar is equal to pa.
(a) 1×10^4 (b) 1×10^8 (c) 1×10^5 (d) 1×10^7
690) is a device for measuring atmospheric pressure without use of liquids.
(a) Fortin's barometer (b) Lacto meter (c) Aneroid barometer (d) Hydro meter 591) The SI unit of density is
(a) kg/m^3 (b) kg/m^2 (c) kg/cm^2 (d) g/m^2
692) Any substance having more density than liquid will in the liquid.
(a) float (b) float or sink (c) sink (d) none of these
593) The average reading of normal milk is
(a) 27 (b) 29 (c) 36 (d) 32
594) Lactometer is used to measure
(a) purity of milk (b) density of sugar (c) higher level of alcohol in sprits
(d) density of water
$595)$ If the speed of a wave is 340 m s $^{\text{-}1}$ and its frequency is 1700 Hz, then wavelength λ for this wave in cm will be
(a) 34 (b) 20 (c) 15 (d) 0.2
596) Which of the following statement best describes frequency?
(a) the number of complete vibrations per second.
(b) the distance travelled by a wave per second.
(c) the distance between one crest of wave and the next one.
(d) the maximum disturbance caused by a wave.
597) In the sound wave produced by a vibrating turning fork as shown in the diagram, half the wave length is represented by:
Chun Crust
(a) BD (b) AB (c) AE (d) DE
598) When the pitch of note by a harmonium is lowered, then the wave length of the note
(a) first decreases and then increases (b) decreases (c) remains the same (d) increases

699) The speeds of sound in four different media are given below. Which of the following is the most likely speed in m s⁻¹ with which the two under water whales in a sea can talk to each other when separated by a large distance?

(a) 5170 (b) 1280 (c) 340 (d) 1530

700) Which of the following can produce longitudinal waves as well as transverse waves under different conditions?

(a) TV transmitter (b) tuning fork (c) water (d) slinky
701) The velocities of sound waves in four media P, O, Q, R and S are 18,00 km/h, 900 km/h, 0 km/h, and 1200 km/h respectively. Which could be a liquid medium?
(a) R (b) Q (c) P (d) S
702) Which of the following are infrasonic waves?
(a) 5 kHz (b) 25 Hz (c) 10 Hz (d) 15000 Hz
703) What name is given to the aricrafts which fly at speeds greater than the speed of sound?
(a) Ultrasonic jets (b) Infrasonic jets (c) Supersonic jets (d) Regular jets
704) Speed of sound in solids does not depend upon
(a) temperature (b) density (c) medium (d) pressure
705) Which of the following sound is not the cause of noise pollution?
(a) Loud speaker (b) Horn of vehicle (c) Explosion (d) Television
706) The back and forth motion of the object is called
(a) Vibration (b) Rotation (c) Translation (d) Linear motion
707) A small bee produces sound, while it moves, the sound is created due to
(a) grinding its teeth (b) Friction due to air (c) flapping of wings (d) sound due to its vocal chord
708) A Sonar device on a submarine send out a signal and receives an echo 5 seconds later. Calculate the speed of sound it water if the distance of the object from the submarine is 3500 m.
(a) 1440 ms ⁻¹ (b) 1460 ms ⁻¹ (c) 1400 ms ⁻¹ (d) 1550 ms ⁻¹
709) The phenomenon of echo of sound waves is due to
(a) Reflection (b) Interference (c) Diffraction (d) All of the above
710) Sound needs a material medium like for its propagation.
(a) air (b) water (c) steel (d) All the above
711) A small disturbance which is carried forward in a medium is called
(a) wave (b) light (c) magnetism (d) ray
712) If the vibration of the particles has large amplitude the sound will be
(a) soft (b) loud (c) both Soft and loud (d) reduced
713) Amplitude is denoted as A. Its SI unit is
(a) kilogram (b) newton (c) meter (d) litre
714) Human ear can hear sound with frequency from
(a) 10 Hz to 10000 Hz (b) 20 Hz to 20000 Hz (c) 5 Hz to 5000 Hz (d) None of these
715) Sound with frequency less than 20 Hz is called sound.
(a) ultrasonic (b) supersonic (c) infrasonic (d) ultra violet
716) The maximum distance in which a sound wave repeats itself is called its

(a) amplitude (b) frequency (c) time period (d) wavelength
717) The SI unit of wavelength is
(a) metre (b) hertz (c) second (d) none of these
718) The intensity level of sound in city traffic is decibels.
(a) 120 (b) 40 (c) 70 (d) 100
719) The sound of thunder is heard a little than the flash of light is seen.
(a) quicker (b) later (c) faster (d) speeder
720) Sound travels about faster in water than in air.
(a) 5 times (b) 4 times (c) 6 times (d) 10 times
721) The speed of sound in air is m/s at 25°C.
(a) 330 (b) 360 (c) 280 (d) 340
722) Sounds with loudness of is partial in the air.
(a) 240 dB (b) 120 dB (c) 380 dB (d) 360 dB
723) The inner parts of the body is examined with sound.
(a) ultra (b) supersonic (c) ordinary (d) infrasonic
724) is a device that uses ultrasonic waves to measure the distance.
(a) LUNAR (b) SONAR (c) RADAR (d) Glider
725) Which of the following statements is correct? A. There are eight planets in our Solar System.
B. Except Mars, all other planets revolve around the Sun in elliptical orbits
(a) A only (b) B only (c) Both A and B (d) None
726) Which of the following is not a member of the solar system?
(a) An asteroid (b) A satellite (c) A constellation (d) A comet
727) Which of the following is not a planet of our solar system?
(a) Sirius (b) Mercury (c) Saturn (d) Earth
728) The colour of a star is a measure of its
(a) age (b) temperature (c) size (d) distance from the earth
729) In a geostationary orbit, a satellite is at a distance of from the Earth.
(a) 53,880 km (b) 25,880 km (c) 36,000 km (d) 1,12,000 km
730) Stars, in a constellation form
(a) No shape (b) any arbitrary shape (c) a recognisable shape (d) a straight line always
731) Which of the following units is used to measure distance between the stars?
(a) km (b) m (c) light year (d) fm 732) The member of our solar system, with highly titted orbit is
(a) Earth (b) Pluto (c) Mars (d) Saturn 733) The universe contains
(a) Galaxies (b) Planets (c) Stars (d) All the above

734) One light year is equal to km.
(a) 9.7046×10^{12} (b) 9.6407×10^{12} (c) 9.4607×10^{12} (d) 9.4607×10^{12}
735) All the matter in the universe is made up of I) Hydrogen II) Sodium III) Iodine IV) Helium
(a) I and II (b) I and III (c) I and IV (d) II and IV
736) Around of the universe is made up of dark matter.
(a) 25% (b) 27% (c) 29% (d) 28%
737) There are formally accepted constellations.
(a) 88 (b) 68 (c) 78 (d) 98
738) The Sun is believed to be more than billion years old.
(a) 3.2 (b) 4.6 (c) 3.7 (d) 4.3
739) Sun's gravity is that of the Earth.
(a) 20 times (b) 22 times (c) 27 times (d) 28 times
740) is the planet nearest to sun.
(a) Mercury (b) Earth (c) Venus (d) Mars
741) The hottest planet of our solar system is
(a) Mercury (b) Earth (c) Venus (d) Jupiter
742) The is the living beings lives in the planet.
(a) Mercury (b) Venus (c) Jupiter (d) Earth
743) planet spins in the opposite direction to all other planets.
(a) Mercury (b) Venus (c) Jupiter (d) Earth
744) is a Giant planet.
(a) Jupiter (b) Saturn (c) Uranus (d) Neptune
745) Jupiter is about 11 times larger than
(a) Saturn (b) Uranus (c) Earth (d) Mars
746) has bright shiny rings and it is yellowish in colour.
(a) Mars (b) Saturn (c) Venus (d) Earth
747) is the only moon in the solar system with clouds.
(a) Titan (b) Triton (c) Gangmede (d) Deimos
748) is the cold gas giant planet in the solar system.
(a) Neptune (b) Jupiter (c) Earth (d) Uranus
749) Neptune has number of moons.
(a) 22 (b) 13 (c) 19 (d) 15
750) Comet Halley was last seen in
(a) 1984 (b) 1968 (c) 1986 (d) 1988 751) The mass of earth is kg.
rory the mass of earth is kg.

(a) $5.972 \times 10^{24} \text{ kg}$ (b) $5.972 \times 10^{23} \text{ kg}$ (c) $5.972 \times 10^{24} \text{ g}$ (d) $5.972 \times 10^{23} \text{ g}$
752) proposed three laws of planetary motion.
(a) Tycho Brahe (b) Johannes Kepler (c) Archimedes (d) Aryabhatta
753) The mass of the international space station is
(a) 4,20,000 kg (b) 42,000 kg (c) 4,20,0000 kg (d) 4,20,000 g
754) Number of free electron(s) in each carbon of graphite is
(a) one (b) Two (c) Three (d) Four
755) The carbon atoms in fullerene are arranged in mixed
(a) Tetragon and Pentagon (b) Pentagon and Hexagon (c) Hexagon and Heptagon
(d) Heptagon and Octagon
756) Diamond is not a good conductor of electricity because
(a) it is very hard (b) it has no free electron (c) its structure is uniform
(d) it is insoluble in water
757) Which of the following does not contain double bond
(a) CO_2 (b) C_2H_4 (c) $HC1$ (d) O_2
758) Which of the following is highly toxic?
(a) Carbon dioxide (b) Carbon monoxide (c) Calcium carbonate
(d) Sodium bicarbonate
759) Raagav brings his lunch every day to school in a plastic container which has resin code number 5. The container is made of
(a) Polystyrene (b) PVC (c) Polypropylene (d) LDPE
760) Which of the following plastic items are banned by the Government of Tamil Nadu as of 1st January 2019?
(a) Plastic sheets (b) Plastic tea cups (c) Plastic water packets (d) All the above
761) Graphite is used as lubricant in machines because
(a) it is good conductor of electricity
(b) it is made of slippery layers and has high melting point (c) it has high density
(d) it is strong and soft
762) The lead pencil contains
(a) Graphite (b) Diamond (c) Lead (d) Charcoal
763) Plastic resin codes are shown as three chasing arrows in a with a number in the middle or letters (an acronym of that plastic type).
(a) Logo (b) Recycling symbol (c) Square (d) Triangle
764) What is the minimum number of carbon atoms of an alkane must have to form an isomer?
(a) 4 (b) 3 (c) 2 (d) 1
765) Hydrocarbons on burning in the air give CO_2 and
(a) Water and heat (b) CO and Heat (c) Water and CO
(d) Water and Sulphur dioxide
766) Which of the following is prepared by heating CaO and coke?

(a) CaC_2 (b) $CaCO_3$ (c) CO_2 (d) CO
767) In a covalent bond formation
 (a) transfer of electrons takes place (b) equal sharing of electrons between two atoms takes place. (c) electrons are shared by one atom only.
(d) electrons are donated by one atom and shared by both atoms.768) Which Amorphous form of carbon is used in making electrode in dry cell?
(a) coke (b) gas carbon (c) lampblack (d) charcoal
769) The thinnest and strongest allotrop of carbon is
(a) Graphite (b) Fullerene (c) Graphene (d) Diamond
770) Incomplete combustion of carbon fuels release this toxic gas into the atmosphere.
(a) CO (b) CO_2 (c) NO (d) NO_2
771) is one of the most important non metallic element.
(a) Silver (b) Tungsten (c) Aluminium (d) Carbon
772) Carbon is found in the form of
(a) diamond (b) charcoal (c) graphite (d) all the above
773) established that diamond is a pure form of carbon.
(a) Carl Scheele (b) Smithson Tennant (c) Benjamin Brodie (d) Francis Bundy 774) produced pure graphite from carbon.
(a) Francis Bundy (b) Benjamin Brodie (c) Smithson Tennant
(d) Antonie Lavoisier
775) is an organic carbon compound.
(a) Ethanol (b) Calcium carbonate (c) Carbondioxide (d) Carbon monoxide
776) takes part in plant process photosynthesis.
(a) Calcium carbide(b) Carbondi sulphide(c) Carbon dioxide(d) Calcium carbonate
777) used as a reducing agent.
(a) Carbon monoxide (b) Carbon dioxide (c) Calcium carbide
(d) Calcium carbonate
778) is a greyish black solid.
(a) Sodium bicarbonate (b) Calcium carbonate (c) Calcium carbide
(d) Carbon di sulphite
779) is a highly poisonous gas.
(a) Calcium carbide (b) Carbon di sulphide (c) Carbon dioxide (d) Sodium bicarbonate
780) have macromolecules of catenated carbon compounds.
(a) Plastics (b) Glass (c) Rubber (d) paper
781) has triple bond in hydro carbons.

(a) Alkane (b) Alkene (c) Alkyne (d) none of these
782) charcoal is used to remove colour in sugarcane industry.
(a) Wood (b) Bone (c) Sugar (d) None of these
783) is a plastic and may cause cancer.
(a) Dioxions (b) Styrene (c) Bisphenol A (d) Lead
784) Poly carbonate plastic contains
(a) Styrene (b) Bisphenol A (c) Cadmium (d) Lead
785) of plastic bags do not get recycled.
(a) 70% (b) 90% (c) 97% (d) 63%
786) Sea birds are affected by
(a) Carry bags (b) Plastic plates (c) Water pouches (d) Plastic straws
787) Do not eat hot or spicy food items in containers.
(a) plastic (b) rubber (c) glass (d) paper
788) Most one time use plates are made from
(a) Poly vinyl chloride (b) Poly carbonate (c) Acrylonitrile Butadiene
(d) Polystyrene
789) Number of free electron(s) in each carbon of graphite is
(a) one (b) Two (c) Three (d) Four
790) The lead pencil contains:
(a) Graphite (b) Diamond (c) Lead (d) Charcoal
791) Which of the following does not contain double bond.
(a) CO_2 (b) C_2H_4 (c) $HC1$ (d) O_2
792) Present in the lemon juice acts as electrolyte.
(a) Sulphuric acid (b) Nitric acid (c) Hydrochloric acid (d) Citric acid
793) Which of the following methods is suitable for preventing iron frying pan from rusting?
(a) Applying grease(b) Applying paint(c) Applying coating of zinc(d) All the above
794) The source of drug of liquid paraffin is
(a) Micro organism (b) Minerals (c) Plants (d) Animal
795) Chloroform reacts with oxygen and forms this toxic substance, hence it is not used now
(a) Carbonyl chloride (b) Carbon di oxide (c) Carbon monoxide (d) Carbon di sulphide
796) Paracetamol is an
(a) Analgesics (b) Antipyretics (c) Antiseptic (d) Anti malarial
797) Congo red is a
(a) Direct dye (b) Vat dye (c) Basic dye (d) add dye
798) Our nails grow each second.

(a) 2nm (b) 1mm (c) 1nm (d) 2mm
799) Among these which one is not related to nano chemistry?
(a) Nano coatings in sports equipment (b) UV - blocking coatings on glass bottles
(c) Stitching clothes (d) Circuits of microchips
800) Prolonged UV - exposure cause skin burns and
(a) cancer (b) Jaundice (c) fever (d) malaria
801) is/are the medicines used for treatement of diseases isolated from plants.
(a) Morphine (b) Quinine (c) Atropine (d) All of these
802) The drugs which cause loss of sensation are called
(a) Antipyretic (b) Anaesthetics (c) Analgesics (d) Antiseptics
803) gas is used as anaesthetics.
(a) Nitrous oxide (b) Chloroform (c) Ether (d) Propyl halide
804) acts both as antipyretic and as well as analgesic.
(a) Asprin (b) Novalgin (c) Phenacetin (d) Paracetamol.
805) is a minor antiseptic mainly used for cleansing wounds.
(a) Hydrocholoric acid (b) Pottasium hydroxide (c) Hydrogen peroxide
(d) Calcium hydroxide
806) The following is a components of electro chemical ceII i) Electrode ii) Connecting wire iii) Electrolyte iv) Battery
(a) i and ii (b) i and iii (c) i and iv (d) ii and iii
807) Gold covering jewels are made by gold electro plated over
(a) copper (b) silver (c) tin (d) all the above
808) Radio isotope is diagnosis of pregnancy disorder.
(a) Sodium - 24 (b) Cobalt - 60 (c) Iron - 59 (d) Iodine - 131
809) Synthetic dye manufacturing stated in
(a) 1956 (b) 1926 (c) 1826 (d) 1856
810) Dye should have a character is/ are
(a) suitable colour (b) be fast to light
(c) resistant to the action of water, dilute acids (d) all the above
811) chemistry is a major source of food production in agriculture.
(a) Agricultural (b) Electro (c) Nano (d) Pharmaceutical
812) are used to kill vectors of disease, to kill pests that damage crops.
(a) Manure (b) Fertilizer (c) Pesticide (d) none of these
813) is the energy giving food.
(a) Proteins (b) Carbohydrates (c) Vitamins (d) Minerals
814) The study of analysis of human body print is known as

(a) Alcohol test (b) Forensic (c) Biometrics (d) None of these
815) Free living soil bacteria such as Pseudomonas sp are responsible for the process in the nitrogen cycle.
(a) ammonification (b) nitrogen fixation (c) nitrification (d) denitrification 816) Which of the following is not an adaptation of hydrophytes?
(a) poorly developed root system (b) reduced plant body
(c) water storing parenchymatous tissues (d) finely divided submerged leaves
817) In some xerophytes, leaves are modified into spines as an adaptation
(a) to reduce transpiration rate (b) to store water
(c) to reduce consumption of water (d) all of the above
818) Identify the incorrect statement with respect to adaptations of earthworm.
(a) Earthworm has a stream lined body with no antennae or fins.
(b) Each segment of earthworm has setae.
(c) Many earthworms become inactive in a process called hibernation, during winter season.
(d) Earthworms remain in its burrow during day time, to avoid sunlight.
819) Which of the following is one of the strategies to conserve water?
(a) Water recycling (b) Increasing the number of bore wells
(c) Using large overhead water tanks (d) Watering the plants using hose
820) Specific constituents such as nitrogen, phosphorus, suspended solids and heavy metals found in the wastewater are removed during treatment of water recycling process.
(a) primary (b) tertiary (c) secondary (d) none of the above
821) How much percentage of Nitrogen consist in Earth's atmosphere?
(a) 25% (b) 12% (c) 92% (d) 78%
822) Deforestation generally decrease
(a) Rainfall (b) Global warming (c) Soil erosion (d) Drought
823) World water day is celebrated every year on
(a) August 12 (b) 22 nd March (c) June 5 (d) July 10
824) Biotic components include
(a) All living organism (b) Light, temperature etc. (c) Water, mineral and gases
(d) Self nourishing green plants
825) Which part of plant consisting Nitrogen fixing bacteria?
(a) Roots (b) Stems (c) Leaves (d) All the above
826) The amount of CO ₂ present in the atmospheric air is
(a) 0.318% (b) 0.383% (c) 21% (d) 78%
827) Which cycle involves transpiration?
-
(a) Water cycle (b) Nitrogen cycle (c) Carbon cycle (d) All the above
828) In the Biosphere is the Abiotic factors.

(a) hibiscus (b) monkey (c) water (d) human
829) The biogeochemical cycle is/are
(a) Water cycle (b) Nitrogen cycle (c) Carbon cycle (d) All the above
830) Plants release water vapour into the atmosphere through stomata. This is called
(a) sublimation (b) Transpiration (c) Condensation (d) Precipitation
831) is a primary nutrient important for survival of all living organism.
(a) Nitrogen (b) Iodine (c) Helium (d) Aluminimum
832) animals synthesize proteins from their food.
(a) Herbivores (b) carnivorous (c) omnivorous (d) None of these
833) The atmospheric carbon dioxitle enters into the plant through the process of
(a) transpiration (b) respiration (c) photosynthesis (d) food storing
834) Roots are absent in the hydrophytic plant of
(a) Hydrilla (b) Wolffia (c) Lemna (d) Lily
835) plants have air chambers to provide buoyancy and mechanical support to plant.
(a) Lemna (b) Hydrilla (c) Lotus (d) Eichhornia
836) plant is called as cinderella of the plant kingdom.
(a) Eichhornia (b) Lotus (c) Lily (d) Hydrilla
837) Which one is not a hydrophytes plant among the following?
(a) Lotus (b) Lily (c) Opuntia (d) Eichhornia
838) The is not a xerophytic plant.
(a) Acacia (b) Calotropis (c) Opuntia (d) Lemna
839) plants are grow in situations that are neither too wet nor too dry.
(a) Hydrophytes (b) Xerophytes (c) Mesophytes (d) None of these
840) plays a large role in keeping soil healthy.
(a) Birds (b) Plants (c) Earthworm (d) Cattles
841) Which of the following are Indian cattle? i. Bos indicus ii. Bos domesticus iii. Bos bubalis iv. Bos vulgaris
(a) i and ii (b) i and iii (c) ii and iii (d) iii and iv
842) Which one of the following is referred as red worms?
(a) Eudrilus fetida (b) Eudrilus eugieniae (c) Perionyx excavatus
(d) Lampito mauritii
843) Mehsana is a breed of
(a) Cow (b) Buffalo (c) Goat (d) Sheep
844) Binomial name of Nilavembu is

(a) Leucas aspera (b) Andrographis paniculata (c) Crotolaria juncea
(d) Cassia fistula
845) Apiculture is the rearing of
(a) Silk worm (b) Bacteria (c) Apex culture (d) Honey bees
846) The quality and taste of honey depends upon the flower visited by
(a) bees (b) flies (c) farmer (d) queen bee
847) Nowadays organic farming and organic products are very popular, which of the following is the reason for people to prefer this kind of products.
(a) Organic food may have higher nutritional value than conventional food
(b) Consuming organic food may also reduce exposure to artificial chemicals
(c) it reduces air pollution (d) All the above
848) It is a live floating nitrogen factory.
(a) Azolla (b) Azospirillum (c) Azotobacter (d) Rhizobium
849) Which of the following can be an analogy to earthworm in agriculture?
(a) Harvestor (b) Plough (c) Seed drill (d) threshes
850) Flavonoids drug is obtained from
(a) Nilavembu (b) Katralai (c) Vepalai (d) Pappali
851) Haryana, Ongole, Kankrej are the cattle breeds favoured by farmers, because they are
(a) Draught breeds (b) Dual purpose breeds (c) Buffalo breeds (d) Dairy breeds
852) Which of the following is correctly matched?
(a) Apiculture - Honey bee (b) Pisciculture- Silk moth (c) Sericulture - Fish
(d) Aquaculture - Mosquito
853) India is the largest producer of fruits.
(a) Guava (b) Litchi (c) Mango (d) All the above
854) is the science of growing vegetables.
(a) Olerioulture (b) Pomology (c) Floriculture (d) Landscape gardening
855) is the largest producer of vegetables.
(a) India (b) China (c) England (d) Australia
856) India stands first in the world in the production of
(a) Cabbage (b) Brinjal (c) tomato (d) Lady's Finger
857) In vermicompost is used to make compost.
(a) Cattle (b) Earthworms (c) Birds (d) Home Wastes
858) Azospirillum is/are inoculated on crops.
(a) Maize (b) Barley (c) Sorghum (d) All the above
859) is a free floating aquatic fern found on water surfaces having Anabaena
(a) Rhizobium (b) Azospirillum (c) Azolla (d) Mycorrhizae
860) Botanical name of Tulsi is

(a) Aloe vera (b) Ocimum sanctum (c) Cinchona Officinalis (d) Carica papaya
861) drug is obtained from Nannia.
(a) Terpenoids (b) Quinine (c) Terpene (d) Papain
862) Mushroom grow better in temperature.
(a) 15°C - 23°C (b) 25°C - 30°C (c) 10°C - 18°C (d) -23°C - 28°C
863) Dairy farming involves raising of cattle for production.
(a) Egg (b) Meat (c) Manure (d) Milk
864) breeds show excellent resistant to disease.
(a) Indigenous (b) Exotic (c) Jersey (d) Brown swiss
865) is originated in Kangayam and is observed in Dharapuram and Perundurai.
(a) Bargur (b) Kangayam (c) Umblachery (d) Pulikulam
866) are the indigenous buffalo breeds which are good milk yielders.
(a) Surti (b) Red Sindhi (c) Deoni (d) Gir
867) is a Indian freshwater cultivable fish.
(a) Koduva (b) Madavai (c) Kendai (d) Milk fish
868) are social insects.
(a) House fly (b) Mosquitoes (c) Butterflies (d) Honeybee
869) are sterile female bees and are the smallest number of the colony.
(a) Worker bee (b) Drones (c) Queen bee (d) None of these
870) is a sweet, viscous, edible natural food product.
(a) Milk (b) Meat (c) Honey (d) Egg
871) The most economically important shell fish resources of India are
(a) crabs (b) prawns (c) lobster (d) oysters
872) Mycology is the branch of biology that deals with the study of
(a) algae (b) virus (c) bacteria (d) fungi
873) The major constituent of vinegar is
(a) citric acid (b) acetic acid (c) oxalic acid (d) hydrochloric acid
874) Bacteria involved in curd formation is
(a) Lactobacillus acidophilus (b) Nitosomonas (c) Bacillus ramous
(d) none of the above
875) The most fatal form of Malaria is caused by
(a) Plasmodium ovale (b) Plasmodium falciparum (c) Plasmodium malariae
(d) Plasmodium vivax
876) Syphilis is caused by
(a) Treponema pallidum (b) Leptospira (c) Pasteurella (d) Vibrio cholerae
877) Mosquito borne viral diseases are

(a) malaria and yellow fever (b) dengue and chikungunya (c) filariasis and typhus
(d) kala azar and diptheria
878) Which one of the following is a pair of viral disease?
(a) Filariasis, AIDS (b) Common cold, AIDS (c) Dysentry, Common cold
(d) Typhoid, Tuberculosis
879) Which of the following disease is spread by animal bite?
(a) Pneumonia (b) Tuberculosis (c) Cholera (d) Rabies
880) Severity of disease symptom depends upon
(a) number of microbes (b) target organ (c) both a and b (d) none of these.
881) Poliomyelitis virus which causes infantile paralysis enters the body through
(a) skin (b) mouth and nose (c) ears (d) eye
882) Flagella arranged along the sides of the bacteria
(a) Peritrichous (b) Monotrichous (c) Lophotrichous (d) Amphitrichous
883) Which substance is produced within an organism to prevent the spread of microorganism?
(a) Antiseptics (b) Antibiotics (c) Antibodies (d) All the above
884) Which antibiotic is extracted from fungi?
(a) Streptomycin (b) Erythromycin (c) Bacitracin (d) Penicillin
885) Which of the following micro organism helps in fermentation?
(a) Yeast (b) Mould (c) Mushroom (d) Rhizopus
886) Carrier of malaria causing protozoa
(a) Cockroach (b) Housefly (c) Butterfly (d) Female Anopheles mosquito
887) The most common carrier of communicable diseases is
(a) ant (b) dragonfly (c) lizard (d) housefly
888) Which disease is treated using antibiotics?
(a) AIDS (b) Dengue fever (c) Cholera (d) Hepatitis B
889) This bacteria gives special aroma to coffee beans and tea leaves.
(a) Bacillus megaterium (b) Lactobacillus (c) Aspergillus niger (d) None
890) A cluster of polar flagella found in bacterium is
(a) Pseudomonas aeruginosa (b) Pseudomonas fluorescens
(c) Aquaspirillum serpens (d) salmonella typhi
891) The only bacteria that lives in dead organic matter.
(a) parasitic (b) symbiotic (c) saprophytic (d) all the above
892) In Bacteria cocci are arranged in grape-like clusters is
(a) diplococci (b) streptococci (c) tetracocci (d) staphylococci
893) The body of fungus is called
(a) thallus (b) hypae (c) mycelium (d) globule
894) The term prion was coined by

(a) Antonie van Leeuwenhoek (b) Robert Koch (c) Stanley B. Prusiner
(d) Sir Ronald Ross 895) is affected by neuro degenerative disease.
(a) Intestine (b) Cerebral cortex (c) Kidney (d) Forelimb
896) protein is toxic to the insect larva and kills them.
(a) Cry (b) Brown (c) Black (d) Dry 897) Beans of coffee and cocos, leaves of tea and tobacco are fermented by the bacteria
(a) Lactobacillus sp (b) Aspergillus niger (c) Saccharomyces cerevisiae (d) Bacillus megaterium
898) Fungus Aspergillus niger produces
(a) oxalic acid (b) acetic acid (c) citric acid (d) all the above 899) Which one is a communicable disease?
(a) Diabetes (b) Obesity (c) Malaria (d) Goitre 900) Which one is a non-communicable disease?
(a) Influenza (b) Goitre (c) Malaria (d) Chicken pox
901) is the disease causal by the bacteria Mycobacterium tuberculosis.
(a) Common cold (b) Influenza (c) Tuberculosis (d) Diptheria
902) is the causative organism of common cold disease.
(a) Rhino virus (b) Myovirus (c) Rubella virus (d) Variola virus 903) disease is called yellow fever.
(a) Poliomyelitis (b) Hepatitis 'A' (c) Acute Diarrhoea (d) Mumps
904) In Acute diarrhoea disease part is affected in human being.
(a) intestinal (b) kidney (c) pancrease (d) lungs
905) disease is caused by the bite of infected Aedes aegypti mosquito.
(a) Malaria (b) Filaria (c) Chikungunya (d) Swine flu 906) fever is known as break bone fever.
(a) Chikungunya (b) Dengu (c) Malaria (d) Swine flu 907) Filariasis is transmitted by the bite of infected mosquito.
(a) Anopheles (b) Ades aegypti (c) Culex (d) None of these 908) The Influenza A virus (H5N1) kills a high proportion of
(a) poultry (b) cow (c) dog (d) pig
909) The HIV attacks the cells.
(a) white blood (b) red blood (c) platelets (d) lymph $837 \times 1 = 837$
910) Metre is the unit of
911) 1 kg of rice is weighed by
912) The thickness of a cricket ball is measured by 913) The radius of a thin wire is measured by
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914) A physical balance measures small differences in mass up to
915) Speed is a quantity whereas velocity is a quantity
916) The slope of the distance – time graph at any point gives
917) Negative acceleration is called
918) Area under velocity – time graph shows
919) In going from a rarer to denser medium, the ray of light bends
920) The mirror used in search light is
921) The angle of deviation of light ray in a prism depends on the angle of
922) The radius of curvature of a concave mirror whose focal length is 5cm is
923) Large mirrors are used to concentrate sunlight to produce heat in solar furnaces
924) Amixture has no distinguishable boundary between its components
925) An example of a substance that sublimes is
926) Alcohol can be separated from water by
927) In petroleum refining, the method of separation used is
928) Chromatography is based on the principle of
929) Calcium and Argon are examples of a pair of
930) Total Number of electrons that can be accommodated in an orbit is given by
931) isotope is used in the nuclear reactors.
932) The number of neutrons present in ${}_{3}^{7}Li$ is
933) The valency of Argon is
934) The shoot system grows upward in response to
935) is positively hydrotropic as well as positively geotropic.
936) The green pigment present in the plant is
937) The solar tracking of sunflower in accordance with the path of sun is due to
938) The response of a plant part towards gravity is
939) Plants may inhale carbon dioxide for photosynthesis but need for their living.
940) The larvae of an amphibian is
941) The skeletal framework of Porifera is
942) Ctenidia are respiratory organs in
943) Skates are fishes.
944) are jawless vertebrates.
945) is the unique characteristic feature of mammal.
946) Spiny anteater is an example for mammal.
947) Deficiency diseases can be prevented by taking diet.
948) The process of affecting the natural composition and the quality of food substance is known as
949) Vitamin D is called as vitamin as it can be synthesised by the body from the rays of the sun.
950) Dehydration is based on the principle of removal of

Vitamin Rich source Deficiency disease Rickets Papaya Night blindness Ascorbic acid Whole grains Beriberi 953 Food should not be purchased beyond the date of	951)	AGMARK is u	used to certify	and	· <u></u>	products in India.
Papaya Night blindness	952)	Vitamin	Rich source	Deficiency disease	•	
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956) Liquids and gases are generally conductors of heat. 957) The fixed temperature at which matter changes state from solid to liquid is called 958) Electrons move from potential to potential 959) The direction opposite to the movement of electron is called current. 960) The e.m.f of a cell is analogues to of a pipe line. 961) The domestic electricity in India is an ac with a frequency of Hz 962) The SI unit of magnetic field induction is 963) Devices which is used to convert high alternating current to low alternating current 964) An electric motor converts 965) A device for producing electric current is 966) In Dobereiner's triads, the atomic weight of the middle element is the of the atomic masses of 1st and 3rd elements. 967) Noble gases belong to group of the periodic table 968) The basis of the classifications proposed by Dobereiner, Newlands and Mendeleev was 969) Example for liquid metal is 970) tissues provides mechanical support to organs. 971) Parenchyma, collenchyma, sclerenchyma are type of tissue 972) and are complex tissues 973) Epithelial cells with cilia are found in of our body 974) Lining of small intestine is made up of 975) The opening of the stomach into the intestine is called 976) The muscular and sensory organ which helps in mixing the food with saliva is 977) Bile, secreted by liver is stored temporarily in 978) The longest part of alimentary canal is 979) The human body functions normally at a temperature of about 980) The largest cell in the human body of a female is 981) The weight of the body immersed in a liquid appears to be than its actual weight.						
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<u> </u>	981)	The weight of				than its
		G	ent used to m	easure atmospheric	pressure is	·
983) The magnitude of buoyant force acting on an object immersed in a liquid depends onof the liquid.	983)	The magnitud	de of buoyant	-	-	

984) A drinking straw works on the existence of
985) Vibration of object produces
986) Sound is a wave and needs a material medium to travel.
987) Number of vibrations produced in one second is
988) The velocity of sound in solid is than the velocity of sound in air.
989) Loudness is proportional to the square of the
990) is a medical instrument used for listening to sounds produced in the body.
991) The repeated reflection that results in persistence of sound is called
992) The speed of Sun in km/s is
993) The rotational period of the Sun near its poles is
994) India's first satellite is
995) The third law of Kepler is also known as the Law of
996) The number of planets in our Solar System is
997) named carbon.
998) Buckminster Fullerene contains carbon atoms.
999) Compounds with same molecular formula and different structural formula are knows as
1000) There are plastic resin codes
1001) is a suitable solvent for sulphur.
1002) is an electrochemical cell which converts electrical energy into
chemical change(Reaction).
1003) Painkiller drugs are called
1004), and are macronutrients required for plant
growth.
1005) is a chemical used in finger print analysis.
1006) Indigo is a dye.
1007) Quinine drug is obtained from
1008) Carica papaya leaf can cure disease.
1009) Vermicompost is a type of soil made by and microorganisms.
1010) refers to the culture of prawns, pearl and edible oysters.
1011) is a preservative in honey.
1012) is the method of culturing different variety of fish in a water body.
1013) The largest member in a honey bee hive is the
1014) break down organic matter and animal waste into ammonia.
1015) Typhoid fever is caused by
1016) H1N1 virus causes
1017) is a vector of viral disease dengue.
1018) vaccine gives considerable protection against tuberculosis.
1019) Cholera is caused by and malaria is caused by
1020) The SI unit of volume is
1021) Least count of screw gauge

1022) Least count of Vernier caliper is
1023) Length, mass and time are called
1024) 1 Angstrom (A ⁰)=m.
1025) Ais the standard quantity with which unknown quantities are
compared.
1026) The smallest amount of time imaginable to us is a twinkling of eye is
called
1027) Donkey power is equal to
1028) Length is defined as the distance between
1029) The unit of velocity is
1030) JS ⁻¹ is the unit of
1031) Light year is equal tom.
1032) Parsec is the unit of distance of used to measureobjects outside the solar system.
1033) Distance between two atoms is measured inunit.
1034)is the quantity of matter contained in the body.
1035) 1 metric tonne is equal tokg.
1036) Zero Kelvin is commonly known as
1037) $\frac{C}{100} = \frac{0}{180}$.
1038) 400 k in celsius scale is0C
1039) The diameter of spherical objects can be measured with
1040) quantity is a quantity that can be measured.
1041) Physical quantities have a value and unit of
1042) Our forefather used unit like one is equal to 660 feet.
1043) unit system is metre. kilogram and second.
1044) SI unit of electric current is
1045) Light travels in one second or kilometre.
1046) Unit of derived quantity force is
1047) One Astronomical unit is equal to
1048) The nearest star from the sun is
1049) Value of one nanometre is equal to
1050) A tongue is twice it length of its body.
1051) One kilogram is the mass of a particular international proto type made of alloy.
1052) Larger unit for measuring time is
1053) One hour is equal to times Nazhikai.
1054) 0 (zero) kelvin is commonly known as
1055) is a inventor of a precise instrument called vernier caliper.
1056) Least count of screw gauge is
1057) helps us to find the weight of an object.
1058) has magnitude and direction.
1059) Mass has magnitude alone to mass is a quantity.
1060) Density of mercury is

1061) Consider an object is rest at position $x = 20m$. Then its displacement – time graph will be straight line to the axis.
1062) The graph of uniform motion is
1063) During uniform motion of an object along a straight line, the change in the velocity is
1064) The displacement made in one second is
1065) Give an example of a motion in which the displacement is zero, but the distance travelled is not zero
1066) Acceleration is a quantity.
1067) determines the direction of motion of an object-velocity or acceleration.
1068) For a freely falling body the acceleration 'a' is replaced by
1069) An object under uniform circular motion experiences
1070) When we thrown an object vertically upwards it moves the acceleration due to gravity.
1071) When a body thrown vertically upwards in space then at the highest point, the body has zero velocity and acceleration to the acceleration due to gravity.
1072) When we separate cream from milk with the help of machines it act as a principle of
1073) Merry go round rotate about vertical axis with the principle of
1074) An object describes a repetitive to and fro movement retracing its original path it is motion.
1075) quantity having both magnitude and direction.
1076) The area under the velocity time graph is to the magnitude of the displacement.
1077) The ratio of sine of the angle of incidence to the sine of is a constant
1078) A spherical mirror whose reflecting surface is curved outwards is called mirror
1079) All distances parallel to the principal axis are measured from the of the mirror
1080) A negative sign in the value of magnification indicates that the image is
1081) Light is refracted or bent while going from one medium to another because its changes
1082) Light travels in the form of
1083) The branch of optics that treats light as rays is named ray optics or
1084) The distance between the pole and the principal focus is
1085) The virtual image is always erect and cannot be
1086) The mirror equation is
1087) can be defined as the ratio of the height of the image (h_1) to the height of the object (h_0) .
1088) Magnification can be related to and
1089) mirror is used as make up mirror.
1090)mirrors are used as rear view mirros
1091) When a ray of light travels from optically rarer medium to optically denser

medium it beads
1092) When a ray of light travels from to rarer it bends away from the normal
1093) The second law of refraction is also known as
1094) $\frac{\sin i}{\sin r} = constant$. This constant is called the
1095) Light has maximum speed in
1096) When the angle of incidence exceeds the value of critical angle it reflected back to the same medium is called
1097) Optical fibers are bundle of high quality composite fibres.
1098) is regarded as the father of optics.
1099) The angle made by the incident ray with the normal is called
1100) The angle made by the reflected ray with the normal is called
1101) Minors whose reflection surface on spherical are called mirrors.
1102) The centre of the hollow sphere of which the spherical mirror forms a part is called
1103) A plane mirror provides a much field of view compared to convex minor.
1104) mirrors are used in blind spots in shops.
1105) When a ray of light travels from as optically denser medium to an optically rarer medium it bends from the normal.
1106) Refractive index of water is
1107) 1500C = K
1108) Evaporation is always accompanied by in temperature
1109) Latent heat is the energy used for
1110) Sand is removed from naphthalene by method.
1111) The solubility of solid in waterwith an increase in temperature
1112) All matter is made up of tiny particles and these particles are in constant motion which possess
1113) The particles start moving faster as their kinetic energy
1114) The pressure depends on the temperature of the gas and theit occupies
1115) The temperature of gases can be expressed inscale.
1116) Element cannot be further broken into simpler particles of matter by chemical methods of, and
1117) In homogeneous mixture the components are uniformly mixed and it will havephase
1118) Inmixture the components are not mixed throughly and it will have more
1119) A colloidal solution is a heterogeneous system consisting of thephase andmedium
1120) Brownian movement of particle is due to the unbalanced bombardment of the particles by the molecules ofmedium
1121) Tyndall effect is due to the scattering of light byparticles
1122) are colloidal solution with liquid dispersed in solid.
1123) is a special type of mixture made by combining two liquids that normally don't mix
1124) Two immiscible liquids can be separated by solvent method

1125) Brownian motion named after the botanist
1126) Silicon atoms on a surface via microscopy.
1127) The tendency for particles of water or mercury to causes spheres
or drops.
1128) occurs at any temperature.
1129) particles are tightly packed.
1130) LPG is highly inflammable gas.
1131) is the SI unit of temperature.
1132) One metre is equal to nanometres.
1133) The head light of vehicles work on the principles of effect.
1134) By method is used to separate salt from sea water.
1135) Examples of solid in solid is
1136) Example of liquid in liquid is
1137) Example of gas in liquid is
1138) The law of reciprocal proportions was proposed by
1139) In Gay Lussac's law all the volumes are measured under similar conditions ofand
1140) Matter consists of very small and indivisible particles called
1141) Alpha radiation are made up of two protons and two
1142) Positive charges are concentrated in the central region of the atom called
1143) Bohr model was applicable only to
1144) The path by which electrons revolve around the nucleus is called
1145) Protons repel each other because of their
1146)reduce the repulsive force between the positively charged protons.
1147) Protons and neutrons are collectively called as
1148) The total number of protons and neutrons present in the nucleus is called
1149) are atoms of the same element having same atomic number but different, mass numbers.
1150)has no neutron.
1151) Isotope of Hydrogen,is radioactive isotope.
1152) C ¹⁴ is used in
1153) Calcium and argon are
1154) Elements having same numbers of neutrons are called
1155) Atomic number of Aluminium is 13 the electronic configuration is
1156) The electronic configuration of sulphur is 2, 8, 6. The number electrons, protons and Atomic number
1157) The number of protons is 17 and neutron is 18. The mass number is
The element is
1158) The outermost shell of an atom is called
1159) The electrons present in the valence shell are known as
1160) Positively charged ions are called
1161) Negatively charged ions are called

1162) The number which designate and distinguish various atomic orbitals and electrons present in the atoms are called
1163) was called as Father of Nuclear physics.
1164) Gamma rays are waves.
1165) Alpha particles are charged.
1166) While revolving in these discrete orbits the donot radiate energy.
1167) is defined as the path by which electrons revolve around the nucleus.
1168) The elementary particles such as protons and neutrons are collectively called as
1169) are filled in a stepwise manner in the increasing order of energy.
1170) Atomic number is 17 and mass number is 35 the element is
1171) Hydrogen have valence is one.
1172) The electronic configuration of Neon is 2,8 so the valence is
1173) The minerals like nitrogen, potassium and phosphorus, are required in substantial quantity by the plants are called
1174) Towards a stimulus : Away from the stimulus : Negative tropism.
1175) Hydrotropism : Response towards water Phototropism :
1176) Photosynthesis: Transpiration: Stomata
1177) When the leaves of a sensitive plant are touched with a finger, they fold up and when light fades at dusk the petals of a Dandelion flower close. These two plants show and movements.
1178) Opening and closing of Moon flower is not a tropism because the movement in this
is
1179) The raw materials for photosynthesis are and
1180) When iodine solution is added for testing starch, part of the leaf with turn blue-black colour.
1181) In leaves, the food is stored in the form of
1182) Plants utilize only% of the absorbed water for photosynthesis and the other activities.
1183) Plants inhale and exhale continuously through the
1184) The leaves ofcloses on touching.
1185) Helianthus annus follows the path of the sun from
1186) The dance of leaf is mesmerizing
1187) Movements in plants are triggered by anstimul.
1188) In Desmodium gyrans the compound leaf showsleaflets.
1189) The tip of the embryonic shoot is covered by a protective sheath called
1190) The plant hormone was identified as
1191) Unidirectional movement of plant part to light stimulus is called
1192) The plant respond to gravity is
1193) The plant respond to water is
1194) Once the shoot touches a suitable support, it grows towards the surface it is
1195) Movement of plant in response to chemical stimuli .

1196) Like animals, plants too
1197)is an example for halophyte.
1198) Rhizophora roots turnupright respiration
1199)movements are independent of the stimuli.
1200)is an example for insectivorus plant.
1201) The common name of Dionaea muscipula is
1202) Photo means
1203) Green plants are
1204)protects our mother earth
1205) The end product of photosynthesis is
1206) Plants take infor photosynthesis
1207) Plants needs to carry on cellular respiration
1208) Priestley concluded that the plant was converting the back into oxygen.
1209) Priestleydevised extraordinary experiment in
1210)is not the major contributor to the gaining of the mass of the plant.
1211)is a green pigment present in leaves.
1212) Structurally chlorophyll resemble
1213) Plants are called primary
1214) Sunlight can penetrateinto the ocean
1215)bacteria is one example of life in extreme environment.
1216) The sea slug consunes alga
1217) Plants inhale and exhale continuously through the
1218)gms of water reacts withgms of CO_2 to formgms of carbohydrate.
1219) Guard cells of stomata are
1220) A maize plant transpiregallons of water during its life spam.
1221)is necessary for continuous supply of minerals.
1222) The conifers have ashape.
1223)implies increased level of average temperature.
1224) Vespa oriental is capable of trapping
1225) Yellow light sensitive pigment is called
1226) During photosynthesis, light energy is converted into energy.
1227) In Desmodium gyrans the leaf shows three leaflets.
1228) Germinated seeds that grow towards
1229) The water soluble chemical identified as the plant hormone
1230) is a growth movement.
1231) Green plants are in their mode of nutrition.
1232) The plant draws up water and minerals from the ground through
1233) plant has variegated leaves.
1234) In chlorophyll atomic structure has is present in the centre part.
1235) In stomata the guard cells are shaped.

1236) Transpiration is a necessary to creates a	_ in leaf and ste	m.
1237) The excretory opening of Porifera is		
1238) The second largest phylum of animal kingdom is _	·	
1239) In India National deworming day is observed on	•	
1240) Myotomes are seen in		
1241) In birds the air sacs communicate with	•	
1242) Placenta is the unique characteristic feature of		
1243) The binomial name of our National Bird is	•	
1244) Blue revolution is the rearing of		
1245) In mammals testis are enclosed by		
1246) Sponge does not have tissues.		
1247) The group of animals that lack true tissues are cal	led as	
1248) Flat worms are		
1249) Germ layers are formed during the development of	an	
1250) becomes the mouth.		
1251) In amoeba, locomotion is by		
1252) Pseudopodia is otherwise called as		
1253) Cellular grade of organisation is seen in		
1254) The other name of Coelenterata is		
1255) Excretion and osmoregulation occur through	ir	ı flat worms.
1256) Free living soil nematodes are		
1257) In Annelids, excretion is by		
1258) Chitin is made up of saccharide.		
1259) The coelomic cavity is filled with		
1260) Arthropod is an and the largest phyl	um.	
1261) Land arthropods breathe through		
1262) Only one eye is present in		
1263) The body is divided into head, muscular foot and $_$ mollusca.	i1	n the Phylum
1264) The most common larva in Mollusca is trochophore	e and	larva.
1265) Spiny skinned Animals are exclusively	organisms	
1266) is the special feature of Echinoderms	S.	
1267) Adults are in Echinodermata		
1268) The animals with backbones are		
1269) are considered as the fore runner of v	ertebrata.	
1270) Gill slits are covered by an		
1271) The cosmopolitan $___$ can swim faster	than a cheetah.	
1272) Culturing of aquatic organisms is referred as		
1273) are the first vertebrates to like an	n land.	
1274) In the heart is four chambered.		
1275) was the first bird.		
1276) The largest bat is the fox.		

1277) The smallest bat weighs grams and no longer then 3.3 cm.
1278) introduced the method of naming the animals with two names known as binomial names.
1279) Protozoans are mostly
1280) Toads are exclusively
1281) comes under phylum Nematoda.
1282) Binomial classification has and words given to each
animal and plant.
1283) In the Binomial name the first name indicates and second is
1284) is a plane of arrangement of Body parts.
1285) means pore bearers.
1286) In sponges through circulation of water takes place.
1287) Stinging cells are called
1288) Excretion and Osmoregulation occur through in flat worms
1289) Most of the members in flat worms are
1290) Wuchereria bancrofti causes
1291) Segmented worms have a central nervous system with a
1292) The word Arthropod means
1293) Phylum Arthropoda includes more than species.
1294) The exoskeleton is made up of polysaccharide called
1295) Small arthropods directly absorb oxygen through their
1296) The first systematic approach to the classification of living organism was made by .
1297) has no nucleus.
1298) are formed during the development of an embryo.
1299) refers to a fluid filled cavity inside the body.
1300) phylum may exist in two different body forms namely a poly and a
medusa.
1301) infection in human intestine.
1302) Earth worm are locomoted by the help of
1303) Segmented worms have a central nervons system with a
1304) The exoskeleton as arthropods made up of a polysaccharides called
1305) Many land arthropods breathe through a system of tiny body tubes called
1306) The animals with backbones are
1307) In frogs hind limbs have
1308) eggs are covered with shells.
1309) Birds eggs as covered by hard shell.
1310) Do not purchase food beyond the date of
1311) Unscramble the words in the brackets to complete the sentence Salting is a process involving addition of (aslt) removes the (oitmsuer) content in the (dofo) by the process of (sosisom) and prevents the growth

of
(artcaeib).
1312) is the basic necessity of life.
1313) refers to the compounds which give us energy.
1314) In carbohydrates, the ratio of carbon, hydrogen and oxygen is
1315) Glucose is a
1316) Sugar is a
1317) Cellulose in vegetables is
1318) Rice, potatoes and bread is rich in
1319) are polymer chains made of aminoacids.
1320) There are essential amino acids.
1321) are enzymes involved in the break down of fats.
1322) Mineral is a element.
1323) Minerals are the constituents of teeth, bones, tissues, blood, muscle and
1324) Metabolism includes two process namely and
1325) The other name of Vitamin A is
1326) Pernicious anaemia is caused by the deficiency of
1327) Swollen and bleeding gums are the symptoms of
1328) Irritation in eyes, dry skin are the symptoms of the disease
1329) Protein deficiency diseases are and
1330) Marasmus affects infants below the age of year.
1331) Daily requirement of carbohydrate is gms.
1332) 40 gm is the daily requirement of
1333) Global Iodine deficiency day falls on
1334) is the deficiency disease of Iodine.
1335) Calcium is one of the
1336) is the deficiency disease caused by calcium.
1337) regulates nerve and muscle activity.
1338) Seafood is rich in
1339) maintains fluid balance.
1340) Iodine is helpful for the formation of hormone.
1341) is required for normal growth and development.
1342) is the process of prevention from decay or spoilage of food.
1343) The process of removal of water is called as
1344) FCI was setup in the year
1345) Drying inhibits the growth of
1346) Ionizing radiations are X-rays, gamma ray or to kill harmful bacteria.
1347) Micro organisms cannot grow below
1348) are preserved at sub-zero temperature.
1349) was the founder of AMUL.
1350) Pasteurisation was invented by
1351) Louis Pasteur developed vaccination against and
1352) Natural preservatives are salt, sugar and

1353) Addition of salt removes the mo	pisture content in the food by the process of
1354) The nature of honey help	ps in reducing the water content of food.
1355) preservatives delay the r	nicrobial growth.
1356) World Food Day is on	
1357) Microbial contamination is due in fruits & vegetables.	to the presence of pathogens like and Salmonella
1358) Common salt is adultered with	
1359) Ice cream is adulterated with _	
1360) The apple appears glossy due t	o the coating of
1361) Class of carbohydrate	Rich in Component
Monosaccharide Poly sac	charide Edible sugar Fructose Lactose
1362) Month/Year Date	Day
	World food day
	Global Iodine deficiency
1363) is the basic necessit	~
1364) components are glu	
1365) There are essentia	l amino acids present in our body.
1366) is a fat soluble vita	min.(vitamin A)
1367) Vitamin C is otherwise called a	s
1368) disease usually affect	ets infants below the age of one year.
1369) is caused due to Iod	ine deficiency.
1370) developed vaccination	n against rabies.
1371) White revolution is Started by $_{\scriptscriptstyle \perp}$	
1372) is responsible for pro regulation and supervision of food sa	tecting and promoting the public health through afety.
1373)is a process just rev	verse of melting
1374) While a substance is undergoir remains the	ng a change of state, the temperature of the body
1375) A change of state is a change o	f a substance from
1376) is the degree of hotm	
	es of water can coexist in equilibrium at
1378) The sum of the kinetic and potential molecules.	ential energy is called the of the
	aids than for solids and maximum in case of gases.
1380) When heat energy is added to a and so the particles many	a substance, the kinetic energy of its particles at higher speed.
-	ue and breathes hard, the moisture on the tongue
• • • • • • • • • • • • • • • • • • • •	ceiling above a lamp or fan caused by dust being

1383) Expansion is maximum in
1384) When heat ice cubes they become
1385) are used as door flaps to keep warm air into igloos.
1386) During night time air above the sea is
1387) Radiation can occur even in
1388) Radiation consist of waves travelling at the speed of light.
1389) The capacity of a substance to gain heat energy is denoted by the term
1390) Specific heat capacity of Brass is
1391) SI unit of heat capacity is
1392) The process is which a liquid is converted to vapour by absorbing heat is called
1393) Trip switch is asafety device
1394) The number of electrons constituting 1 coulomb charge is
1395) Resistors are connected in series, if the resistance of electric circuit is to be
1396) Electric fuse is a wire made up of a material havingmelting point.
1397)is the only non-metal that is a good conductor of electricity
1398) If the area of cross section of the conductor is doubled its resistance gets
1399) A negative charge will move fromto potential.
1400)is work done per unit charge
1401) An electrochemical cell convertsenergy into energy.
1402) Three resistors are connected in series with a cell. If the current in each resistor is 1.5A, then the current through the cell will be
1403) Three resistors are connected in parallel with a battery. If the current in each resistor is 2A, then the current through the battery will be
1404) If an electron is added in excess to an atom then the atom is called ion.
1405) Charge on one electron is equal to coulomb.
1406) lines of force are imaginary lines.
1407) is an instrument used to measure the potential difference.
1408) discovered the relation between potential difference, current and resistance.
1409) Domestic supply is in the form of
1410) The device used to convert ac to dc is called
1411) The voltage of dc can be varied easily using a device called
1412) In the United States of America the voltage of ac used for domestic purpose is
1413) works on replay principle.
1414) No force acts in a current carrying conductor when it is the magnetic field.
1415) The magnetic field inside ais uniform.
1416) An AC generator is provided with slip rings which rotate with the coil

1417) The moving part of an electric motor is called
1418) A magnetic field is aquantity.
1419) The SI unit of magnetic field strength is
1420) The laws of induction were given by
1421) The relation between weber and Tesla is
1422) Unlike magnetic poles whereas like poles
1423) Magnetic lines of force never each other
1424) Sailors use to find the direction in order to navigate on the sea.
1425) The strongest natural magnet ismagnetite.
1426) is important in navigation of the earth.
1427) Magnetic field lines start at pole and ends at pole.
1428) Magnetic lines of force will be at the poles than at the equator.
1429) discovered that a current carrying conductor gets deflected when it is placed in a magnetic field.
1430) To get current a split ring type commutator must be used.
1431) Transformer works on the principal of
1432) In electric bell the hits the bell and makes it ring.
1433) Now a days fields as important role in hyperthermia treatment of cancer.
1434) B, Si, Ge and As are the examples of
1435)group elements are called alkaline earth metals.
1436) The elements that follow lanthanum are called
1437)block element is placed at the bottom of the periodic table
1438) f-block elements are also know as
1439) The mixture of metal with mercury is called
1440) The only non-metal which can produce a soft metallic clink when it is shaken in a bottle is
1441)is the only non-metals which can conduct heat.
1442) Dobereiner called three element groups as
1443) In the Newlands table is placed between fluorine and sodium.
1444) Mendeleev's periodic table has eight vertical columns called
1445) In modern periodic 16 th group is known as
1446) element is the last element of modern periodic table.
1447) elements are called as alkali metals.
1448) The elements that follow Lanthanum are called
1449) is the lightest, smallest and first element of the periodic table.
1450) gas is used in discharge lamps for the orange column.
1451) When metal is alloyed with it is called amalgam.
1452) is a non metal which has high melting and boiling point.
1453) Non metals on reaction with metal.
1454) alloy is used to make artificial jewellery.
1455)theory explains the formation of molecules
1456) The valency of noble gases is

1457)is the only noble gas which does not have eight electrons in their valence shell.
1458) The atom that loses electrons will from a
1459)compounds have high density
1460) In covalent bond formation, the sharing of electrons takes place in their
outermost shell.
1461) Polar solvents contain bond between atoms with
1462) &atoms have similar electro negativities
1463) Molecular reactions arein covalent compound.
1464) Jonic compounds are in nature.
1465) and gave successful explanation based upon the concept of electronic configurations of noble gases.
1466) In Ionic bond formation the atom gaining electrons will form an
1467) Chlorine has one electron less to the nearest stable electronic configuration of a noble gas
1468) Triple covalent bond represented by a triple line (≡) between two atoms is
1469) The molecular reaction in covalent compound is
1470) Ionic compounds conducts electricity in state.
1471) Addition of oxygen is known as
1472) One of the most valuable metal has high resistance to corrosion.
1473) Acid reacts with base to form a neutral product called
1474) The taste of acid is
1475) contain one or more replaceable hydrogen atoms
1476) acids have relatively smaller amount of acids dissolved in solvent.
1477) Acids react with metallic oxides to produce
1478)acid is used in aerated drinks
1479) Chemical formula of aquaregia is
1480) Water soluble bases are called
1481) Non-metallic oxides arein nature
1482)are bitter in taste
1483) The word acid is derived from the Latin name
1484) Grape fruit contains acid.
1485) proposed a theory on acid and bases.
1486) acids ionise completely in water.
1487) acid is a constituent of baking powder.
1488) Aquaregia chiefly dissolve metals such as and
1489) Non metalic oxides are in nature.
1490) is used as a medicine for stomach disorder.
1491) A neutral solution has pH to 7.
1492) contains a mixture of indicator.
1493) pH of stomach fluid is approximately
1494) Rice requires soil for its growth.

1495) The together as a unit	tissues are made up of more than one type of cells and these wok
1496) The two types	of skeletal connective tissues areand
1497) Humans havechromo	46 chromosomes. Their sperms and eggs will have somes each.
1498) During pairing side by side.	of chromosomes in meiosis, the chromosomes come to lie
1499) The word meri	stem is derived from a greek word
1500) Cork Cambium	n is an example ofmeristem
1501) The meristem	found at the base of internodes is called
1502) In apple paran	chyma stores
1503) Extensively lor	ng cells seen in the simple tissue
1504) During mieosis	s the paired chromosomes are called
1505) Mitosis was dis	scovered by
1506) Both smooth a	nd cardiac muscles are in nature.
1507)is	a non-flexible skeletal connective tissue
1508)acts as	s a fat reservoir
1509)epithe	elium is seen in sweat glands.
1510) Genetic variati	ons occur in mieosis because of
1511) The term meris	stem was coined by
1512) mer	ristem increase the thickness of the plant part.
1513) In apple paren	chyma stores
1514) Parenchyma co	ells exposed to light may develop chloroplasts and are known as
1515) is us	ed in making of rope and fabrics.
1516) con	ducts water, mineral, nutrients upward from root to leaves.
1517) The main func	tion of xylem is to store starch and fatty substances.
1518) The study of ce	ell is known as
1519) Fat cell is a sp	herical or oval adipose cell and contains a large droplet of
1520) The matrix of t	the bone is in the form of concentric rings called
1521) Sprain is cause	ed by excessive pulling of
1522) Erythrocytes c	ontain a respiratory pigment called
1523) The longest cel	ll of the body is
1524) cel	l divisions is otherwise called as Reduction division.
1525) Division of nuc	cleus into two daughter nuclei is called
1526) Organs which constitute the	are concerned with the formation, storage and elimination of urine
1527) In the process filtrate is reabsorbed	of urine formation, maximum amount of water from the glomerular d in the
1528)is the	smallest cell in males
1529) Progesterone is	s secreted by
1530) The oviducts a	re also known as
1531) One mature ov	rum is released once in every days

1532) Beta cells of pancreas produce
1533) Parts of the body concerned with the digestion of food form the
1534) are hard structures meant for holding. curling. grinding and
crushing the food.
1535) are the largest salivary glands are present in the mouth cavity.
1536) Saliva contain an antibacterial enzyme called
1537) converts starch into maltose.
1538) Oesophagus conducts food from pharynx to the stomach by
1539) The gastric glands present in the inner wall of secrete gastric juice.
1540) is known as Father of Gastric Physiology.
1541) The longest part of the small intestine is
1542) produces fibrinogen and prothrombin used for clotting of blood.
1543) acts both as an exocrine gland and as an endocrine gland.
1544) The is the longest part of the digestive system.
1545) eliminates metabolic wastes through respiration.
1546) Maintain the fluid and electrolytes balance in our body by
1547) The process of purifying blood by an artificial kidney is called
1548) In a fluid, buoyant force exists because pressure at the of an object is greater than the pressure at the top.
1549) Pressure at a given depth does not depend upon the of the vessel containing the liquid. It only depends on the
1550) The empty space in barometer above the mercury column is called as
1551) is a device for measuring atmosphere pressure without the use of liquids
1552) In petrol bunks, the tyre pressure of vehicles is measured in a unit called
1553) For pressure lower than atmosphere pressure, Absolute pressure =
1554) Density of any substance with respect to the density of water at 4°C is called as
1555) is an experiment, that demonstrates the principle of buyonacy.
1556) have to wear a special suit while travelling in space.
1557) The net force acting perpendicular to the surface is called
1558) SI unit of thrust is
1559) does not depend on shape and size of the container.
1560) Mercury barometer is first designed by
1561) In petrol bunks tyre pressure vehicles is measured in a unit called
1562) The total mass of atmosphere is km in the radius of earth.
1563) Pascals law is used in machine.
1564) The symbol for density is
1565) Relative density can be measured using
1566) A sound wave has a frequency of 4 k hz and wavelength 2 m. Then the velocity of sound is
1567) Ultrasounds can also be used to detect cracks and flows in

1568) In the inner ear, the pressure variations are turned into electrical signals by the
1569) Loudness is determined by the of vibration
1570) Unwanted sound is called
1571) Shrillness of sound is determined by the of vibration.
1572) The unit of frequency is
1573) The greater the surface area of the vibrating body, the is the loudnes of sound.
1574) The second which we hear again a little later is called
1575) needs a medium for propagation.
1576) Sound cannot travel through
1577) When object sound is produced.
1578) Sound is a wave.
1579) The SI unit of frequency is
1580) Sound with frequency greater than 20,000 Hz is called sound.
1581) and time period are reciprocal to each other.
1582) The loudness of a sound depends on the of the sound wave.
1583) A sound of single frequency is called a
1584) Collection of tones is called a
1585) Speed of sound in iron ism/s.
1586) The outer ear is called
1587) is the only moon in the solar system that moves in the opposite direction to the direction in which its planet spins.
1588) The Planet which is farthest from the Sun is
1589) A celestial body that revolves around a planet is known as
1590) Asteroids are found between the orbits of and
1591) A group of stars that appear to form a pattern in the sky is known as
1592) Greek name of Sun is
1593) Most of the energy emitted by the Sun in the form of radiation is rays.
1594) One can not see the Sun in north pole for days.
1595) are really the collection of billions of stars.
1596) The universe began with the start of a massive explosion called the
1597) The silicon in our computer chips are formed in the
1598) Around 68% of the universe is
1599) Stars are built by gas.
1600) The sun has three quarter of gas and one quarter of gas
1601) The sun's diameter across equator is km.
1602) moves around the sun faster than any other planet.
1603) The first planet outside the orbit of the Earth is
1604) is the largest moon of our solar system.

1605) The largest moon in Neptune is
1606) The biggest asteroid is 946 km across.
1607) comet appears after nearly 76 years.
1608) is the first artificial satellite which was launched in 1956.
1609) is the condition in which people or objects appear to be weightless.
1610) is the formula calculating orbital velocity
1611) The is intended to act as a scientific laboratory.
1612) astronaut spent most number of days in ISS.
1613) Different methods of formation of carbon is the main reason for its
1614) The elements present in methane is and
1615) The atomic number of carbon is
1616) Chemical linkage into chains of atoms of the same element is known as
1617) The latin word meaning coal.
1618) Tendency of carbon to share its four electrons with that of the other atoms to complete. It is called
1619) represents the type of polymer used to make the plastic.
1620) named carbon from the Latin word 'carbo'.
1621) About % of the weight of human body is carbon.
1622) The most vital reaction of plants involve carbon compounds.
1623) Carbon chemistry is also called as chemistry.
1624) The most recently discovered allotrope of carbon is
1625) is used as Antacid.
1626) is a main component of water gas.
1627) Carbon can form four covalent bond with other elements called
1628) The compound has double bond.
1629) is used to making electrode in dry cell.
1630) causes pollution to our environment.
1631) There are unsafe plastic.
1632) is one of the rnost toxic chemicals known to human.
1633) are the heavy metal lbund is polyvinyl chloride plastics.
1634) is a most recently produced allotrope of carbon.
1635) Different methods of formation of carbon is the main reason for its
1636) 1.Four covalent bonds :Diamond
Three covalent bonds :
2.Polyvinyl chloride plastics:Resin code 3 Thermocol : .
3.Polycarbonate plastics :Bisphenol - A
Polystyrene plastics :
1637) Aspirin is an
1638) was awarded noble prize for his discovery of spontaneous
radioactivity in 1903.

1639) bacteria.	substance	s are incorporated in fabrics to prevent the growth of
	ch course loss o	f sensation is called
		n drunken drivers is possible through the anol.
1642)	Isotope us	ed for the treatment of Blood disorder and Skin disease.
•		atom is around 0.2 nm.
1644) Sunscreen protection facto		ning nano provide enhanced sun
1645)	_ is the chemica	als used for treating disease.
1646)	is an anaesthe	tic chemical which has a pleasant smell sweet taste.
of conciousness		ounds which relieve all sorts of pains without the loss
1648) i	is a natural ant	imalarial obtained from cinchona bark.
1649) The	is the first	antibiotic.
1650) The	is a drug w	hich provide relief from burning sensation in stomach.
1651)	is a solid electi	rical conductor made of metal.
1652) The proces	ss of depositing	a thin layer of one metal over another is called
1653)	is thought to b	e the second leading isotope to cause lung cancer.
		this purpose of photosynthesis called
	_	ment of skin disease.
		esized by
_	-	mination of pH, porosity and texture.
		physical growth of body,
•	-	ree foods in right propertions is called
	ne precipitated v	water moves deep into the soil and increases ground
1661) Leguminos fixing bacteria		ea and beans have a symbiotic relationship with nitrogen
1662) Cindrella d	of the plant king	gdom is called as
1663) In opuntia	leaves are mod	lified into
1664) Plants tha	t grow in dry ha	abitat are called as
1665)	is a ma	nure prepared by earthworm.
1666)	is a prima	ry nutrient for the survival of all living organisms.
1667) A liquid is	converted to ga	as before reaching the boiling point is
1668) Condensat	tion is the rever	rse process of
1669) Legumino	us plants like p	ea have a symbiotic nitrogen fixing bacteria
		ert plant proteins into animal proteins.
	_	for nitrification are called as bacteria
1672) Plants gro	wing in or near	water are called
1673) Plant grow	ing in dry habi	t are called .

1674) In plants leaves are modified into spires.
1675) are the only mammals that can fly.
1676) Bats are blooded animals.
1677) Bats give out high frequency sound called
1678) The has a cylindrical elongated and segmented body.
1679) The ideal temperature range of earthworm is
1680) Earthworms are referred as
1681) World Water Days is celebrated every year on
1682) ponds help the farmers to store water and to use it for irrigation.
1683) IUCN was founded on, 1948 at Switzerland.
1684) is a nodulating type of micro organism associating symbiotically with the root of legume plants.
1685) Ganoderma lucidum, is commonly known as mushroom.
1686) is the maintenance of bee colonies in modern hives.
1687) The fertile female in a honey bee hive is
1688) Pasturage is related to
1689) The most intensive type of vegetable growing is called as
1690) Floriculture is the art of cultivation of
1691) is obtained by the collection and decomposition of green leaves,
twigs of trees, shrubs and herbs.
1692) Tamil nadu government recently launched which aims at better management of natural farming.
1693) plant is used for treating Leukemia and cancer.
1694) In system of gardening, the growth medium is air.
1695) Young female calf is called as young male is called as
1696) is called as Father of while revolution.
1697) The word horticulture is derived from the Latin word and
1698) India is the second largest producer of
1699) is growing vegetables in small scale in house hold.
1700) Pradhan Mantri Fasal Bima Yojana (PMFBY) was launched on 2016
1701) is capable of producing antifungal and antibacterial compounds.
1702) increase the uptake of phosphorus.
1703) fever is cured by Nilavembu.
1704) Dairying is the production and marketing of and its products.
1705) In India breeds are the main milk producer.
1706) Unavailable of green folder cattle can be fed with
1707) is an organic liquid fertilizer.
1708) was called the father of white Revolution.
1709) is an Indian marine water cultivable fish.
1710) comprises of liver oil and body oil.
1711) Vermiwash contain high amount of enzymes along with
1712) is also called as Bee keeping.

1713) In a honey comb cells contain honey and pollen.
1714) The honey bees suck the from various flowers.
1715) helps in building up of haemoglobin content in this blood.
1716) The hyphae with branches form a complex network called
1717) First antibiotic was developed by
1718) Baker's yeast is
1719) The two non symbiotic nitrogen fixing bacteria are and
1720) is an agent that acts as an intermediate carrier of the pathogen.
1721) Fungi used in bakeries are
1722) is a species of bacteria that produces a protein called cry protein.
1723) are viral particles which contain only proteins.
1724) Herbal drink is given to dengue patients.
1725) is caused by virus that affects pigs and has started infecting humans as well.
1726) is a process of developing resistance to infections by admlnlsfration of antigen or antibodies.
1727) is a Dual antigen. It gives protection from and
1728) Special structure of organ found in Bacteria is
1729) Flagella arranged along the sides of the bacteria are called
1730) do not synthesize their own food.
1731) A simple virus particle is often called a
1732) are viral particle which contain only proteins.
1733) is a species of bacteria that produces a protein called as cry protein.
1734) is a communicable disease.
1735) Father of Bateriology is
1736) Many pathogens secrete poisonous substances called
1737) Varicella zoster virus causes disease.
1738) Vibrio cholerae produces a toxin called
1739) Malaria spreads through the bite of an insect vector Mosquito
1740) Filariasis disease is caused by the nematode
1741) Avian influenza is caused by
1742) Neisseria gonorrhoea is an organism which causes disease.
1743) Vaginal discharge is a symptom of disease.
1744) Pasteurisation is discovered by
1745) Globally, morality rate due to is reduced by 7%.
1746) refers to the administration of vaccine. ABBREVIATION $10 \times 1 = 10$
1747) ISI
1748) FPO
1749) AGMARK
1750) FCI

1751) FSSAI

1752) ORS

1753) HIV

1754) DPT

1755) WHO

1756) BCG

 $13 \times 1 = 13$

- 1757) Correct the wrong statements.
- a. Ionic compounds dissolve in non polar solvents
- b. Covalent compounds conduct electricity in molten or solution state.
- 1758) Correct the mistakes:
- a) Washing soda is used for making cakes and bread soft, spongy.
- b) Calcium sulphate hemihydrate is used in textile industry.
- 1759) In the formation of compounds, the inner shell electrons of an atom involve in bonding.
- 1760) The atom that gains electrons will form cation
- 1761) Ionic compounds have low melting and boiling point
- 1762) Non-polar solvents contain bonds between atoms with different electronegativities.
- 1763) Covalent compounds are soluble in polar solvents
- 1764) Greater the charge of the cation greater will be the ionic character
- 1765) An acid is the compound which are capable of forming hydroxyl ions (OH⁻) in aqueous solution.
- 1766) Nitric acid is a constituent of baking powder.
- 1767) The pH value of the base in lesser than 7.
- 1768) $Ca(OH)_2$ is a triacidic base.
- 1769) Magnesium hydroxide is used in white washing of buildings. ASSERTION REASON

 $85 \times 2 = 170$

- 1770) Assertion(A): The scientifically correct expression is "The mass of the bag is 10 kg" Reason (R): In everyday life, we use the term weight instead of mass
- (a) Both A and R are true but R is not the correct reason
- (b) Both A and R are true and R is the correct reason
- (c) A is true but R is false
- (d) A is false but R is true
- 1771) Assertion (A): 0 $^{\circ}$ C = 273.16 K. For our convenience we take $^{\circ}$ C = 273 K after rounding off the decimal

Reason (R): To convert a temperature on the Celsius scale you have to add 273 to the given temperature

- (a) Both A and R are true but R is not the correct reason
- (b) Both A and R are true and R is the correct reason
- (c) A is true but R is false
- (d) A is false but R is true
- 1772) Assertion (A): The distance between two celestial bodies is measured in the unit of light year

Reason (R): The distance travelled by the light in one year is one light year

- (a) Both A and R are true but R is not the correct reason
- (b) Both A and R are true and R is the correct reason

- (c) A is true but R is false
- (d) A is false but R is true

1773) Mark the correct choice as:

- (a) Both assertion and reason are true and reason in the correct explanation of assertion.
- (b) Both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) Assertion is true but reason is false.
- (d) Assertion is false but reason is true.

Assertion: The accelerated motion of an object may be due to change in magnitude of velocity or direction or both of them.

Reason: Acceleration can be produced only by change in magnitude of the velocity it does not depend the direction.

1774) Mark the correct choice as:

- (a) Both assertion and reason are true and reason in the correct explanation of assertion.
- (b) Both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) Assertion is true but reason is false.
- (d) Assertion is false but reason is true.

Assertion: The Speedometer of a car or a motor-cycle measures the average speed of it.

Reason: Average velocity is equal to total displacement divided by total time taken.

1775) Mark the correct choice as:

- (a) Both assertion and reason are true and reason in the correct explanation of assertion.
- (b) Both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) Assertion is true but reason is false.
- (d) Assertion is false but reason is true.

Assertion: Displacement of a body may be zero when distance travelled by it is not zero.

Reason: The displacement is the shortest distance between initial and final position.

1776) **Assertion:** For observing the traffic at a hairpin bend in mountain paths a plane mirror is preferred over convex mirror and concave mirror.

Reason: A convex mirror has a much larger field of view than a plane mirror or a concave mirror.

1777) **Assertion**: Incident ray is directed towards the centre of curvature of spherical mirror. After reflection it retraces its path.

Reason: Angle of incidence i = Angle of reflection $r = 0^{\circ}$.

1778) Assertion: Haemoglobin contains iron.

Reason: Iron deficiency leads to anaemia

- (a) If both Assertion and Reason are true and the Reason is the correct explanation of Assertion
- (b) If both Assertion and Reason are true but Reason is not the correct explanation of Assertion
- (c) If Assertion is true but Reason is false
- (d) If both Assertion and Reason is fals

1779) Assertion: AGMARK is a quality control agency

Reason: ISI is a symbol of quality

- (a) If both Assertion and Reason are true and the Reason is the correct explanation of Assertion
- (b) If both Assertion and Reason are true but Reason is not the correct explanation of Assertion

- (c) If Assertion is true but Reason is false
- (d) If both Assertion and Reason is false

1780) Mark the correct choice as:

- (a) If both assertion and reason are true and reason is the correct explanation of assertion.
- (b) If both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If assertion is false but reason is true.

Assertion: Food can be cooked faster in vessels with copper bottom.

Reason: Copper is the best conductor of heat.

1781) Mark the correct choice as:

- (a) If both assertion and reason are true and reason is the correct explanation of assertion.
- (b) If both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If assertion is false but reason is true.

Assertion: Maximum sunlight reaches earth's surface during the afternoon time.

Reason: Heat from the sun reaches earth's surface by radiation.

1782) Mark the correct choice as:

- (a) If both assertion and reason are true and reason is the correct explanation of assertion.
- (b) If both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If assertion is false but reason is true.

Assertion: When water is heated up to 100°C, there is no raise in temperature until all water gets converted into water vapour.

Reason: Boiling point of water is 10°C.

1783) **Statement**: Elements in a group generally possess similar properties but elements along a period have different properties.

Reason: The difference in electronic configuration makes the element differ in their chemical properties along a period.

- a) Statement is true and reason explains the statement.
- b) Statement is false but the reason is correct.

1784) Assertion: Urea is excreted out through the kidneys

Reason: Urea is a toxic substance.

1785) Assertion: In both the sexes gonads perform dual function

Reason: Gonads are also called primary sex organs

1786) **Assertion**: To float, body must displace liquid whose weight is equal to the actual weight.

Reason: The body will experience no net downward force in that case.

- (a) If both assertion and reason are true and reason is the correct explanation of assertion.
- (b) If both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If assertion is false but reason is true.
- 1787) Assertion: Pascal's law is the working principle of a hydraulic lift.

Reason: Pressure is thrust per unit area.

(a) If both assertion and reason are true and reason is the correct explanation of assertion.

- (b) If both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If assertion is false but reason is true.
- 1788) a) If both A and R are true and R is correct explanation of A
- b) If both A and R are true but R is not the correct explanation of A
- c) If A is true but R is false
- d) If both A and R are false.

Assertion: Chicken pox is a disease indicated by scars and marks in the body.

Reason: Chicken pox causes rashes on face and further spreads throughout the body.

1789) a) If both A and R are true and R is correct explanation of A

- b) If both A and R are true but R is not the correct explanation of A
- c) If A is true but R is false
- d) If both A and R are false.

Assertion: Dengue can be treated by intake of antibiotics.

Reason: Antibiotics blocks the multiplication of viruses.

1790) Assertion (A): Digital Vernier Caliper has a digital display on the slides, which calculates and displays the measured value.

Reason (R): The user need not manually calculate the least count, zero error.

- (a) Both A and R are true but R is not the correct reason
- (b) Both A and R are true and R is the correct reason
- (c) A is true but R is false
- (d) A is false but R is true
- 1791) Assertion (A): Temperature is a measure of hotness.

Reason (R): SI unit of tempeature is Celsius.

- (a) Both A and R are true but R is not the correct reason
- (b) Both A and R are true and R is the correct reason
- (c) A is true but R is false.
- (d) A is false but R is true
- 1792) Assertion (A): The SI systems of units is the improved system of units for measurement.

Reason (R): The SI unit of mass is kilogram

- (a) Both A and R are true but R is not the correct reason
- (b) Both A and R are true and R is the correct reason
- (c) A is true but R is false
- (d) A is false but R is true
- 1793) Assertion (A): The skill of estimation is important for all of us in our daily life.

Reason (R): The skill of estimation reduces our consumption of time

- (a) Both A and R are true but R is not the correct reason
- (b) Both A and R are true and R is the correct reason
- (c) A is true but R is false
- (d) A is false but R is true
- 1794) Assertion (A): Our forefathers used to like muzham, furlong, mile to measure length.

Reason (R): Many of the ancient system of measurement were based on the dimension of human body.

- (a) If both assertion and reason are true and reason is the correct explanation of assertion.
- (b) If both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If assertion is false but reason is true.

1795) Assertion (A): Unit of acceleration is ms⁻².

Reason (R): Acceleration can be calculated by the formula = length x breadth.

- (a) If both assertion and reason are true and reason is the correct explanation of assertion.
- (b) If both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If assertion is false but reason is true.
- 1796) Assertion (A): Mass of the sub atomic particles can be determined using atornic mass unit.

Reason (R): One atomic mass unit is equal to $1/12^{th}$ of the mass of carbon 12 atom.

- (a) If both assertion and reason are true and reason is the correct explanation of assertion.
- (b) If both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If assertion is false but reason is true.
- 1797) Assertion (A): Vernier caliper cannot measure the inner and outer diameters of objects.

Reason (R): Thickness of hollow objects like pen cap, Tea cup cannot be measured with the meter scale.

- (a) If both assertion and reason are true and reason is the correct explanation of assertion.
- (b) If both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If assertion is false but reason is true.
- 1798) Assertion (A): Physical balance is used in laboratory.

Reason (R): Physical balance is a lot more sensitive and can measure mass of an object correct to a milligram.

- (a) If both assertion and reason are true and reason is the correct explanation of assertion.
- (b) If both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If assertion is false but reason is true.
- 1799) Assertion (A): Mass has magnitude alone so it is a scalar quantity.

Reason (R): It is measured using spring balance.

- (a) If both assertion and reason are true and reason is the correct explanation of assertion.
- (b) If both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If assertion is false but reason is true.
- 1800) Mark the correct choice as:
- (a) Both assertion and reason are true and reason is the correct explanation of assertion.
- (b) Both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) Assertion is true but reason is false.
- (d) Assertion is false but reason is true.

Assertion: One can determine the distance moved by the car from its velocity-time graph.

Reason: The area under the velocity-time graph gives the distance moved by the car in a given interval of time.

1801) Mark the correct choice as:

- (a) Both assertion and reason are true and reason is the correct explanation of assertion.
- (b) Both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) Assertion is true but reason is false.
- (d) Assertion is false but reason is true.

Assertion: When an object moves with constant speed along a circular path, the motion is called uniform motion.

Reason: When an object is moving with a constant speed along a circular path, the velocity changes due to the change in direction.

1802) Mark the correct choice as:

- (a) Both assertion and reason are true and reason is the correct explanation of assertion.
- (b) Both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) Assertion is true but reason is false.
- (d) Assertion is false but reason is true.

Assertion: Force acting on a body away from the centre of circular path is called centrifugal force.

Reason: Centrifugal force is in the same direction of centripetal force.

1803) Mark the correct choice as:

- (a) Both assertion and reason are true and reason is the correct explanation of assertion.
- (b) Both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) Assertion is true but reason is false.
- (d) Assertion is false but reason is true.

Assertion: A spin dryer removes excess water from clothing by rotating a perforated drum at high speed.

Reason: Cream is lighter than other components in milk. Therefore skimmed milk which is denser than cream is collected at outer wall of the ball.

- 1804) Assertion (A): Where the object moves along a straight line is called Linear motion. Reason (R): A bus moves along a straight line is Linear motion.
- (a) If both assertion and reason are true and reason is the correct explanation of assertion.
- (b) If both assertion and reason are true but reason is not the correct explanation of assertion
- (c) If assertion is true but reason is false
- (d) If assertion is false but reason is true.
- (e) If both assertion and reason is false.

1805) Assertion (A): Distance is a scalar quantity.

Reason (R): Scalar quantity having both magnitude and direction.

- (a) If both assertion and reason are true and reason is the correct explanation of assertion.
- (b) If both assertion and reason are true but reason is not the correct explanation of assertion
- (c) If assertion is true but reason is false
- (d) If assertion is false but reason is true.
- (e) If both assertion and reason is false.

1806) Assertion (A): In sometimes the acceleration is zero.

Reason (R): This means the initial velocity is equal to final velocity.

- (a) If both assertion and reason are true and reason is the correct explanation of assertion.
- (b) If both assertion and reason are true but reason is not the correct explanation of assertion
- (c) If assertion is true but reason is false
- (d) If assertion is false but reason is true.
- (e) If both assertion and reason is false.
- 1807) Assertion (A): In uniform motion it covers unequal distances in unequal intervals of time.

Reason (R): If the speed increases the distance will be decreses.

- (a) If both assertion and reason are true and reason is the correct explanation of assertion.
- (b) If both assertion and reason are true but reason is not the correct explanation of assertion
- (c) If assertion is true but reason is false
- (d) If assertion is false but reason is true.
- (e) If both assertion and reason is false.
- 1808) Assertion (A): A spin dryer removes excess water from the clothing a perforated drum at high speed.

Reason (R): The water is thrown out the holes.

- (a) If both assertion and reason are true and reason is the correct explanation of assertion.
- (b) If both assertion and reason are true but reason is not the correct explanation of assertion
- (c) If assertion is true but reason is false
- (d) If assertion is false but reason is true.
- (e) If both assertion and reason is false.
- 1809) **Assertion:** Light bends due to varying densities and temperature of atmosphere. The light which reaches us appears to come from different points.

Reason: This gives the impression that stars are twinkling. If you go above the atmosphere the stars do not twinkle.

1810) **Assertion**: A ray of light from an object successively bends away from the normal and undergo total internal reflection.

Reason: If the angle of reflection for the air near the ground reduces the critical angle.

1811) Assertion: Concave mirrors are installed on public roads as traffic safety device.

Reason: Traffic safety devices are used in acute bends in mountain passes where direct view of oncoming vehicles is restricted.

1812) **Assertion:** If the light rays coming from an object actually meet after reflection, the image formed will be a real image.

Reason: It is always inverted and can be produced on a screen.

1813) **Assertion:** If the light rays coming from an object do not actually meet, but appear to meet when produced backward that image will be virtual image.

Reason: The virtual image is always erect and cannot be caught on a screen.

1814) **Assertion:** When the object is far away (Infinity) the rays of light reaching the concave mirror are parallel to each other.

Reason: Position of image is principal focus(f).

1815) Assertion: Convex mirror is used to dentist.

Reason: A light is made fall on the concave mirror it focuses the small area of the body.

1816) **Assertion:** The bending of light ray when they pass obliquely from one medium to another medium.

Reason: Due to total internal reflection.

1817) Assertion: The hydra is a diploblastic organism.

Reason: They have two germ layers.

- (a) Assertion is correct and the reason is wrong.
- (b) Reason is correct and the assertion is wrong.
- (c) Both assertion and reason is correct.
- (d) Both assertion and reason is wrong.
- 1818) Assertion: The prochordate are grouped under Acrania.

Reason: They have well defined cranium.

- (a) Assertion is correct and the reason is wrong
- (b) Reason is correct and the assertion is wrong
- (c) Both assertion and reason is correct
- (d) Both assertion and reason is wrong
- 1819) Assertion: A true body cavity is located within the mesoderm.

Reason: Earthworms are called Pseudocoelomates.

- (a) Assertion is wrong and reason is correct.
- (b) Reason is correct and assertion is wrong.
- (c) Both Assertion and Reason are correct.
- (d) Assertion is correct and Reason is wrong.
- 1820) Assertion: Pinna is absent in mammals.

Reason: Heart is three chambered in mammals.

- (a) Assertion is correct and Reason is correct.
- (b) Reason is wrong and Assertion is correct.
- (c) Assertion and Reason are wrong.
- (d) Both are correct.
- 1821) **Assertion**: In Urochordates the body is enveloped by a tunic.

Reason: Amphioxus is an example.

- (a) Assertion is wrong Reason is right.
- (b) Reason is wrong and Assertion is partially correct.
- (c) Both Assertion and Reason are correct.
- (d) Assertion is correct and Reason is wrong.
- 1822) Assertion: Fishes are Poikilothermic, terrestrial vertebrates.

Reason: Locomotion is with the help of Pseudopodia.

- (a) Assertion is correct and Reason is wrong.
- (b) Assertion is wrong and Reason is correct.
- (c) Both Assertion and Reason are correct.
- (d) Both Assertion and Reason and wrong.
- 1823) Assertion: In birds the bones are Pneumatic and light weight.

Reason: Their eggs are yolk laden.

- (a) Assertion is wrong and Reason is correct.
- (b) Both Assertion and Reason are correct.
- (c) Reason is correct Assertion is wrong.
- (d) Assertion is correct Reason is wrong:
- 1824) Assertion: Starfish is a radial symmetry living organism.

Reason: If we cut through the central axis in any direction it can be divided into similar halves.

1825) Assertion: Earth worms are ring like structure jointed together.

Reason: Earth worms are locomoted without setae.

1826) Assertion: Molluscans are excreted through malpighian tubules.

Reason: Molluscans have green glands.

1827) Assertion: In fishes respiration is performed by gills.

Reason: In fishes have gill slits are 5 - 7 pairs.

1828) **Assertion**: Fats also known as monoglycerides are esters of free fatty acid chains and glyceraldehyde.

Reason: Fat is an important food stuff for many forms of life.

- (a) If both A and R are true and R is the correct explanation of A.
- (b) If both A and R are true but R is not the correct explanation of A.
- (c) If A is false and R is correct.
- (d) Both A and R is false
- 1829) Assertion: Vitamin E is otherwise known as Tocophenol.

Reason: Sterility is the disorder caused by the deficiency of vitamin E.

- (a) Both A and R is correct.
- (b) A is correct R is wrong.
- (c) A is wrong R is correct.
- (d) Both A and R are wrong.
- 1830) **Assertion**: Potassium maintains fluid balance and is involved in neuro transmission.

Reason: It is rich in Table salt.

- (a) A is wrong and R is correct.
- (b) Both A and R are wrong.
- (c) A is correct and R is wrong.
- (d) Both A and R are correct
- 1831) **Assertion**: Synthetic food preservatives like sodium benzoate, citric acid, vinegar, sodium meta bisulphate are added to food products.

Reason: These preservatives stimulates the microbial growth.

- (a) A is not correct but R is correct.
- (b) Both A and R are correct.
- (c) A is correct R is wrong.
- (d) Both assertion and reason are wrong.
- 1832) Assertion: Some fatty acids are called as essential fatty acids.

Reason: Essential fatty acids cannot be synthesized in the body.

1833) Assertion: Deficiency of calciferol in children to produce rickets.

Reason: Symptom of rickets is delayed blood clotting.

1834) Assertion: Pasteurization process involves boiling of milk to a temperature of 100°C for about 30 minutes.

Reason: To destroy the microbes present in the milk.

1835) Assertion: Addition of salt is one of the oldest methods of preserving food.

Reason: Addition of salt removes the moisture content in the food by the process of osmosis.

1836) Assertion: Synthetic food preservatives like sodium benzoate to increase the microbial growth.

Reason: These preservative increase the microbial growth and keep the food safe for long time.

- 1837) Mark the correct choice as:
- (a) If both assertion and reason are true and reason is the correct explanation of assertion.
- (b) If both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If assertion is false but reason is true.

Assertion: Aluminium conducts heat faster than copper.

Reason: Specific heat capacity of aluminium is higher than that of copper.

1838) Assertion (A): Temperature is the measure of the heat energy.

Reason (R): Energy is the capacity to do work.

- (a) If both assertion and reason are true and reason is the correct explanation of assertion.
- (b) If both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If assertion is false but reason is true.
- 1839) Assertion: In summer the railway tracks are expanded.

Reason: Solids expands on heating.

1840) Assertion: Take some ice cubes and put them in a glass of water the ice cubes disappear.

Reason: Heat energy is transferred from the atmosphere to ice cubes.

1841) Assertion: Woollen clothes are not worn in winter season.

Reason: Woollen clothes are bad conductor of heat.

1842) Assertion: The amount of heat energy absorbed or lost in a body.

Reason: It is determined by the factor change in temperature of the body.

1843) Assertion: The temperature at which a vapour changes its state to liquid is called condensation point.

Reason: Boiling point as well as condensation point of water is 100°C.

1844) **Assertion**: The force acting on the surface of a liquid at rest, under gravity, in a container is always horizontal.

Reason: The forces acting on a fluid at rest have to be normal to the surface.

- (a) If both assertion and reason are true and reason is the correct explanation of assertion.
- (b) If both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If assertion is false but reason is true.
- 1845) **Assertion**: A sleeping mattress is so designed that when you lie on it, a large area of your body comes in its contact.

Reason: This reduces the pressure on the body and sleeping becomes comfortable.

- (a) If both assertion and reason are true and reason is the correct explanation of assertion.
- (b) If both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If assertion is false but reason is true.
- 1846) **Assertion**: Wide wooden sleepers are kept below railway lines to reduce pressure on the railway tracks and prevent them from sinking in the ground.

Reason: Pressure is directly proportional to the area in which it is acting.

- (a) If both assertion and reason are true and reason is the correct explanation of assertion.
- (b) If both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If assertion is false but reason is true.
- 1847) Assertion: A block of wood is floating in a pond of water and it's apparent weight is zero.

Reason: The weight of water displaced (buoyant force) acting vertically upwards is just equal to the weight of the body which acts vertically downwards.

a) Both assertion and reason are correct and reason is the correct explanation of-the

assertion.

- b) Both assertion and reason are correct but reason is not the correct explanation for assertion.
- c) Assertion is correct but reason is incorrect.
- d) Both assertion and Reason are incorrect.
- 1848) Assertion: It is better to use a sharp tipped nail than a blunt nail.

Reason: A sharp tipped nail needs a larger force to drive it into the wooden surface.

- a) Both reason and assertion are true and reason is the correct explanation of assertion.
- b) Both assertion and reason are correct but reason is not the correct explanation for assertion.
- c) Assertion is correct but reason is incorrect.
- d) Both assertion and Reason are incorrect.
- 1849) Assertion: Hydroponics can be defined as a soilless growing system in which plants grow in water.

Reason: If a plant is provided with water, minerals and required nutrients, it will grow well and yield more even in the absence of soil.

- a. If both Assertion and Reason are true and Reason is the correct explanation of Assertion.
- b. If both Assertion and Reason are true and Reason is not the correct explanation of Asssertion.
- c. If Assertion is true but Reason is false.
- d. If both Assertion and Reason are false.
- 1850) Assertion: Fish and other varieties of aquatic animals are used as food.

Reason: Fish and other varieties of sea food constitute good source of nutrition.

- a. If both Assertion and Reason are true and Reason is the correct explanation of Assertion.
- b. If both Assertion and Reason are true and Reason is not the correct explanation of Asssertion.
- c. If Assertion is true but Reason is false.
- d. If both Assertion and Reason are false.
- 1851) Assertion: The production of food from animal sources has increased greatly in the last few decades.

Reason: Operation flood and blue revolution production has increased in the recent years.

- a. If both Assertion and Reason are true and Reason is the correct explanation of Assertion.
- b. If both Assertion and Reason are true and Reason is not the correct explanation of Asssertion.
- c. If Assertion is true but Reason is false.
- d. If both Assertion and Reason are false.
- 1852) Assertion: Earth worm is called farmers friend

Reason: It is eco-friendly, non toxic consumes low energy input for composting.

- a) If both Assertion and Reason are true and Reason is the correct explanation of Assertion.
- b) If both Assertion and Reason are true and Reason is not the correct explanation of Asssertion.
- c) If Assertion is true but Reason is false.
- d) If both Assertion and Reason are false.
- 1853) Assertion: Organic farming is very beneficial for farmers to increase crop production.

Reason: Bacteria, fungi, mycorrhiza cyanobacteria are better biofertilizer which fixes nitrogen and increase soil fertility.

- a) If both Assertion and Reason are true and Reason is the correct explanation of Assertion.
- b) If both Assertion and Reason are true and Reason is not the correct explanation of Asssertion.
- c) If Assertion is true but Reason is false.
- d) If both Assertion and Reason are false.
- 1854) a) If both A and R are true and R is correct explanation of A
- b) If both A and R are true but R is not the correct explanation of A
- c) If A is true but R is false
- d) If both A and R are false.

Assertion: A patient with cholera is given oral rehydration therapy for rapid replacement of fluid and electrolytes.

Reason: Cholera can be diagnosed by the microscopic examination of the stool to identify the bacteria.

 $65 \times 2 = 130$

- 1855) Inian and Ezhilan argue about the light year. Inian tells that it is 9.46×10^{15} m and Ezhilan argues that it is 9.46×10^{12} km. Who is right? Justify your answer.
- 1856) The main scale reading while measuring the thickness of a rubber ball using Vernier caliper is 7 cm and the Vernier scale coincidence is 6. Find the radius of the ball.
- 1857) Find the thickness of a five rupee coin with the screw gauge, if the pitch scale reading is 1 mm and its head scale coincidence is 68.
- 1858) Find the mass of an object weighing 98 N.
- 1859) Calculate the correct reading, if the main scale reading is 8 cm, vernier coincidence is 4 and positive zero error is 0.05 cm.
- 1860) The main scale reading is 8 cm and vernier coincidence is 4 and negative zero error is 0.02 cm. Then calculate the correct reading:
- 1861) If a man has a mass 50 kg on the earth, then what is his weight?
- 1862) A ball is gently dropped from a height of 20 m. If its velocity increases uniformly at the rate of 10 ms⁻² with what velocity will it strike the ground? After what time will it strike the ground?
- 1863) An Athlete completes one round of a circular track of diameter 200 m in 40 s. What will be the distance covered and the displacement at the end of 2 m and 20 s?
- 1864) A racing car has a uniform acceleration of 4 ms⁻². What distance it covers in 10 s after start?
- 1865) An object travels 16 m in 4 s and then another 16 m in 2 s. What is the average speed of the object?
- 1866) A sound is heard 5 s later than the lightning is seen in the sky on a rainy day. Find the distance of location of lightning? Given the speed of sound = 346 ms⁻¹
- 1867) The brakes applied to a car produce an acceleration of 6 ms⁻² in the opposite direction to the motion. If the car takes 2 s to stop after the application of brakes, calculate the distance traveled during this time.
- 1868) A 900 kg car moving at 10 ms⁻¹ takes a turn around a circle with a radius of 25 m. Determine the acceleration and the net force acting upon the car.
- 1869) A concave mirror produces three times magnified real image of an object placed at 7 cm in front of it. Where is the image located?
- 1870) Light enters from air into a glass plate having refractive index 1.5. What is the speed of light in glass? (Speed of light in vacuum is 3×10^8 ms⁻¹).

- 1871) The speed of light in water is $2.25 \times 10^8 \, \text{ms}^{-1}$. If the speed of light in vacuum is $3 \times 10^8 \, \text{ms}^{-1}$, calculate the refractive index of water.
- 1872) Find the size, nature and position of the image formed when an object of size 1 cm is placed at a distance of 15 cm from a concave mirror of focal length 10 cm.
- 1873) An object 2 cm high is placed at a distance of 16 cm from a concave mirror which produces a real image 3 cm high. Find the position of the image.
- 1874) A car is fitted with a convex mirror of focal length 20 cm. Another car is 6 m away from the first car. Find the position of the second car as seen in the mirror of the first. What is the size of the image if the second car is 2 m broad and 1.6 m high?
- 1875) The speed of light in air is $3 \times 10^8 \text{ ms}^{-1}$ and in glass it is $2 \times 10^8 \text{ ms}^{-1}$. What is the refractive index of glass?
- 1876) Light travels from a rarer medium to a denser medium. The angles of incidence and refraction are respectively 45° and 30°. Calculate the refractive index of the second medium with respect to the first medium.
- 1877) Calculate the atomic number of an element whose mass number is 39 and number of neutrons is 20. Also find the name of the element.
- 1878) What is the Electronic configuration of Aluminium?
- 1879) Find the valency of Magnesium and Sulphur.
- 1880) What is the heat in joules required to raise the temperature of 25 grams of water from 0° C to 100° C? What is the heat in Calories? (Specific heat of water = 4.18 J/g° C).
- 1881) What could be the final temperature of a mixture of 100 g of water at 90°C and 600 g of water at 20°C?
- 1882) How much heat energy is required to change 2 kg of ice at 0° C into water at 20° C? (Specific latent heat of fusion of water =3,34,000 J/ kg, Specific heat capacity of water = 4200Jkg⁻¹ K⁻¹).
- 1883) Convert the following
- i. 25 °C to Kelvin
- ii. 200 K to °C
- 1884) Convert the following
- i. 35° C to Fahrenheit (°F)
- ii. 14 °F to °C
- 1885) Calculate the heat energy required to raise the temperature of 2 kg of water from 10°C to 50°C. Specific heat capacity of water is 4200 JKg⁻¹ K⁻¹.
- 1886) An iron ball requires 5000 J heat energy to raise its temperature by 20 K. Calculate the heat capacity of the iron ball.
- 1887) How much heat energy is required to melt 5 kg of ice? (Specific latent heat of ice = 336 Jg^{-1})
- 1888) How much boiling water at 100°C is needed to melt 2 kg of ice so that the mixture which is all water is at 0°C?
- 1889) Calculate the amount of charge that would flow in 2 hours through an element of an electric bulb drawing a current of 2.5A.
- 1890) The values of current I flowing through a resistor for various potential differences V across the resistor are given below. What is the value of resistor?

I (ampere) 0.5 1.0 2.0 3.0 4.0 V (volt) 1.6 3.4 6.7 10.2 13.2

[Hint: plot V-I a graph and take slope]

- 1891) Rubbing a comb on hair makes the comb get 0.4C. (a) Find which material has lost electron and which one gained it. (b) Find how many electrons are transferred in this process.
- 1892) How many electrons will be there in one coulomb of charge?
- 1893) If, 25 C of charge is determined to pass through a wire of any cross section in 50 s, what is the measure of current?
- 1894) The current flowing through a lamp is 0.2A. If the lamp is switched on for one hour, what is the total electric charge that passes through the lamp?
- 1895) The e.m.f of a cell is 1.5 V. What is the energy provided by the cell to drive 0.5 C of charge around the circuit?
- 1896) A charge of 2×10^4 C flows through an electric heater. The amount of electrical energy converted into thermal energy is 5×10^6 J. Compute the potential difference across the ends of the heater.
- 1897) A conductor of length 50 cm carrying a current of 5 A is placed perpendicular to a magnetic field of induction 2×10^{-3} T. Find the force on the conductor.
- 1898) A current carrying conductor of certain length, kept perpendicular to the magnetic field experiences a force F. What will be the force if the current is increased four times, length is halved and magnetic field is tripled?
- 1899) The primary coil of a transformer has 800 turns and the secondary coil has 8 turns. It is connected to a 220 V ac supply. What will be the output voltage?
- 1900) Find the oxidation number of the elements in the following compounds.
- a. C in CO₂
- b. Mn in MnSO₄
- c. N in HNO₃
- 1901) A block of wood of weight 200 g floats on the surface of water. If the volume of block is $300~\rm cm^3$ calculate the upthrust due to water.
- 1902) Density of mercury is 13600 kg m⁻³. Calculate the relative density.
- 1903) The density of water is 1g cm⁻³. What is its density in S.I. units?
- 1904) Calculate the apparent weight of wood floating on water if it weighs 100g in air.
- 1905) A man whose mass is 90 kg stands on his feet on a floor. The total area of contact of his two feet with the floor is 0.036 m^2 (Take, $g = 10 \text{ ms}^{-2}$). How much is the pressure exerted by him on the floor?
- 1906) Calculate the pressure exerted by a column of water of height 0.85 m (density of water, ρ_w = 1000 kg m⁻³) and kerosene of same height (density of kerosene, ρ_k = 800 kg m⁻³)
- 1907) A mercury barometer in a physics laboratory shows a 732 mm vertical column of mercury. Calculate the atmospheric pressure in pascal. [Given density of mercury, $\rho = 1.36 \times 10^4$ kg m⁻³, g = 9.8 m s⁻²]
- 1908) A hydraulic system is used to lift a 2000 kg vehicle in an auto garage. If the vehicle sits on a piston of area 0.5 m^2 , and a force is applied to a piston of area 0.03 m^2 , what is the minimum force that must be applied to lift the vehicle?

Given: Area covered by the vehicle on the piston $A_1 = 0.5 \text{ m}^2$

- Weight of the vehicle, F_1 = 2000 kg × 9.8 m s⁻² Area on which force F_2 is applied, A_2 = 0.03 m²
- 1909) You have a block of a mystery material, 12 cm long, 11 cm wide and 3.5 cm thick. Its mass is 1155 grams. (a) What is its density? (b) Will it float in a tank of water, or sink?
- 1910) The frequency of a source of sound is 600 Hz. How many times does it vibrate in a minute?

1911) A stone is dropped from the top of a tower 750 m high into a pond of water at the base of the tower. When is the splash heard at the top? (Given $g = 10 \text{ m s}^{-2}$ and speed of sound = 340 m s⁻¹) 1912) A sound wave has a frequency of 2 kHz and wavelength of 15 cm. How much time will it take to travel 1.5 km? 1913) What is the wavelength of a sound wave in air at 20° C with a frequency of 22 MHz? 1914) A man fires a gun and hears its echo after 5 s. The man then moves 310 m towards the hill and fires his gun again. If he hears the echo after 3 s, calculate the speed of sound. 1915) A ship sends out ultrasound that returns from the seabed and is detected after 3.42 s. If the speed of ultrasound through sea water is 1531m s⁻¹, what is the distance of the seabed from the ship? 1916) Calculate the speed with which a satellite moves if it is at a height of 36,000 km from the Earth's surface and has an orbital period of 24 hr (Take R = 6370 km) [Hint: Convert hr into seconds before doing calculation] 1917) At an orbital height of 400 km, find the orbital period of the satellite. 1918) Can you calculate the orbital velocity of a satellite orbiting at an altitude of 500 km? Data: G = 6.673×10^{-11} SI units; $M = 5.972 \times 10^{24} \text{ kg}$; R = 6371000 m; h = 500000 m. 1919) At an orbital height of 500 km, find the orbital period of the satellite. ARRANGE JUMBLED LETTERS $\,$ $11 \times 2 = 22$ 1920) 1. We are a family of five and lies in 17th group of periodic table (7 letters) 2. I am being stored in kerosene and be cut by knife (6 letters) 3. I am the most corrosion resistant silvery-white metal and lies in group 9 (7 letters) 4. I am being used as refrigerant in liquid form with atomic number 7 (8 letters) 5. I am in your blood as hemoglobin and without me no buildings are possible (4 letters) 6. I am the highly radioactive and newly designated element in the modern periodic table with atomic number 113 (8 letters) 7. I am used as a disinfectant for drinking water. (8 letters) 8. I am mixed with salt and used for thyroid health (6 letters) 9. I am the key part of biological molecules and have the valency of four. (5 letters) 10. I am the first in the noble gas group and used to fill balloons (6 letters) 1921) It is the hardest allotrope of carbon Monday 1922) Organic compounds having double bond between carbon atoms are knelaes 1923) Reaction of carbon with oxygen gives osdiexs 1924) In this molecule, carbon is attached with four hydrogen atoms. emathen 1925) Carbon combines with other elements through bond. lnaocvet 1926) It is used as gun powder. ocahrcla 1927) Plastics made of _____ are represented by resin code # 6. sytlopynere 1928) One-time use plastics are also known as _____ plastics. awyrhotwa 1929) One-time use plastics cause _____ damage. trnvomenialne 1930) Expanded polystyrene is commercially known as mthreolco CONCEPTUAL QUESTIONS $12 \times 2 = 24$

- 1932) Does a solar cell always maintain the potential across its terminals constant? Discuss.
- 1933) Can electroplating be possible with alternating current?
- 1934) Why do some stars appear blue and some red?
- 1935) How is a satellite maintained in nearly circular orbit?
- 1936) Why are some satellites called geostationary?
- 1937) A man weighing 60 kg in the Earth will weigh 1680 kg in the Sun. Why?
- 1938) Why are we able to see the Moon even though it is not a luminous body?
- 1939) When do Astronomers realize that Sun is one of the billions of stars?
- 1940) Is it true that the Sun emits yellow colour radiation? Why sky appears blue in colour?
- 1941) What type of galaxy is Miiky Way? why is it termed so?
- 1942) All the stars appear to us as moving from east to west. But one star appears to be stationary? What is the name of the star? How does it appear like that?

 ODD OUT $10 \times 2 = 20$
- 1943) AIDS, Retrovirus, Lymphocytes, BCG
- 1944) Bacterial disease, Rabies, Cholera, Common cold and Influenza
- 1945) HCl, HNO₃, HCOOH, H₃PO₄.
- 1946) Acetic acid, formic acid, tartaric acid, sulphuric acid.
- 1947) CaO, Na₂O, ZnO, NaOH
- 1948) Bitter taste, soupy to touch, turns red litmus to blue produce pink colour with methyl orange.
- 1949) Litmus paper, phenolphthalein, methyl orange, Aquaregia.
- 1950) Rain water harvesting, farm pond, water recycling, condensation.
- 1951) Nocturnality, Aestivation, Echolocation, Flight adaptation.
- 1952) Sporozoites, Merozoites, Trophozoites, Gametocytes (Infective stages of plasmodium in human)
