

RAVI MATHS TUITION CENTRE , WHATSAPP - 8056206308

Time : 1 Mins	ENVIRONMENTAL ISSUE	S 1	Marks : 1057
atmospheric temperatu	reenhouse gases has resulte re in Idle latitude c) polar region		
Green muffler scheme I a) air pollution b) nois	helps to reduce e pollution c) e-wastes d)) both (a) and (b).	
cancers?	in the atmosphere can lead to socide c) Ozone d) Amm		cidence of skin
4. Eutrophication is often	,		
measuring: a) biochemical oxygen	adable organic matter in sew demand b) the growth of an demand d) the growth of a	naerobic bacteria	in water
,	of acidic rain in a pond? wth b) Decreased insect po green algae d) NO ₃ ⁻ & SO ₄	_	
	arming, which one of the folloimal communities will move	=	-
Agriculture in the Prairie Shield.	e provinces will be redevelop	ed on soils of the	Canadian
c) The anticipated rise in s caps.	sea level will be caused prim	arily by the meltin	g of polar ice
d)The decomposition of o increase.	organic matter in the unfrozer	າ surface layer of _ໂ	polar soils will

8. Acid rains are produced by

	a) excess NO _x and SO ₂ from burning fossil fuels
	b) excess production of NH ₃ by industries and power plants
	c) excess release of carbon monoxide by incomplete combustion of fossil fuels
	d) excess release of CO ₂ by combustion and animal respiration.
9.	DDT residues are rapidly passed through food chain causing biomagnification
	because DDT is:
	a) water soluble b) lipid soluble c) moderately toxic
	d) non-toxic to aquatic animals.
10.	A sewage treatment process in which a portion of the decomposer bacteria present
	in the waste is recycled into the beginning of the process, is called
	a) cyclic treatment b) primary treatment c) activated sludge treatment
	d) tertiary treatment
11.	Read the given statements and select the correct option.
	Statement 1 : Irrigation without proper drainage of water leads to waterlogging in the
	soil.
	Statement 2: Waterlogging draws salts to the soil surface, which are deposited as a
	thin crust on the land surface or start collecting at the roots of the plants.
	a) Both statements 1 and 2 are correct.
	b) Statement 1 is correct but statement 2 is incorrect.
	c) Statement 1 is incorrect but statement 2 is correct.
	d) Both statements 1 and 2 are incorrect.
12.	Green-house effect is warming due to
	a) infra-red rays reaching earth b) moisture layer in atmosphere
	c)
	increase in temperature due to increase in carbon dioxide concentration of
	atmosphere
	d) ozone layer of atmosphere
13.	The controlled aerobic combustion of wastes inside chambers at temperature of 900-
	1300°C is known as
	a) Incineration b) Recycling c) Pyrolysis d) Sanitary dumping
14.	High value of BOD (Biochemical Oxygen Demand) indicates that
	a) Water is highly Polluted. b) Water is less Polluted.
	c) Consumption of organic matter in the water is higher by the microbes.
	d) Water is Pure
15.	The supersonic jets cause pollution by the thinning of
	a) CO ₂ layer b) SO ₂ layer c) O ₂ layer d) O ₃ layer
16.	Scrubber in the exhaust of a chemical industrial plant removes:

	a) Gases like sulphur dioxide
	b) Particulate matter of the six 5 micrometre or above
	c) Gases like ozone and methane
	d) Particulate matter of the size 2.5 micrometre or less
17.	Montreal protocol was passed in:
	a) 1985 b) 1986 c) 1987 d) 1988
18.	Which of the following actions can be taken to control noise pollution?
	a) Delimitation of horn-free zone around hospitals and schools
	b) Permissible sound-levels of crackers and of loudspeakers
	c) Set the timing after which loudspeakers cannot be played d) All of these
19.	Which one of the following is not a bioindicator of water pollution?
	a) Blood-worms b) Stone flies c) Sewage fungus d) Sludge-worms
20.	A river with inflow of domestic sewage rich in organic waste may result:
	a) Increased population of aquatic food web organisms
	b) Death of fish due to lack of oxygen
	c) Drying of the river very soon due to algal bloom
	d) Increased population offish due tobiodegradable nutrients
21.	Soil fertility is depleted due to
	a) Pan breaking b) Terracing c) Intensive agriculture d) Contour Bunding
22.	Which of the following is absent in polluted water?
	a) Hydrilla b) Water hyacinth c) Larva of stonefly d) Blue-green algae
23.	Identify the incorrectly matched pair.
	a) Chipko movement - Protection of trees b) Kyoto protocol - Climatic change
	c) Montreal protocol - Forest conservation
	d) Ramsar convention - Conservation and sustainable utilisation of wetlands
24.	Most hazardous metal pollutant of automobile exhausts
	a) mercury b) cadmium c) lead d) copper
25.	Which of the following is the way to control vehicular air- pollution in Indian cities?
	a) Use of CNG as fuel b) Use of unleaded petrol in the vehicles
	c) Use of catalytic converter in the vehicles d) All of these
26.	Chipko movement was launched for the protection of
	a) forests b) livestrock c) wetlands d) grasslands
27.	Match the items given in Column I with those in Column II and select the correct
	option given below:
	Column I Column II
	(A) Entrophication (i) UV-Bradiation

(B) Sanitary landfill		(ii) Defo	restation	
(C) Snow		(iii) Nutr	ient	
blindness		enrichm	ent	
(D) [hum cultivation		(iv) Was	te disposal	
a) l	b)		c)	d)
A B CD	ΑВ	C D	A B C D	ABCD
(iii)(iv)(i)(ii)	(i)(iii))(iv)(ii)	(ii)(i)(iii)(iv)	(i)(ii)(iv)(iii)
Photochemica		O .		

- 28.
 - a) Sulphur b) Nitrogen c) Carbon d) Phosphorus
- 29. Noise cause
 - a) headache by constricting blood vessels of the brain
 - b) eye strain by constricting the pupil c) digestive spasms through anxiety
 - d) high blood pressure by decreasing cholesterol level in the blood.
- 30. Which one of the following diseases is not due to contamination of water?
 - a) Hepatitis-B b) Jaundice c) Cholera d) Typhoid
- 31. Presence of E.coli in water indicates
 - a) Water is clear b) Water is fully polluted c) Inorganic pollution
 - d) Faecal pollution
- 32. Assertion: Deforestation increases carbon dioxide concentration in the atmosphere. Reason: Deforestation may lead to desertification.
 - a)

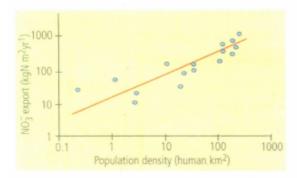
If both assertion and reason are true and reason is the correct explanation of assertion

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 both assertion and reason are false
- 33. Which of the following is the most important cause for animals and plants being driven to extinction?
 - a) Drought and floods b) Economic exploitation c) Alien species invasion
 - d) Habitat loss and fragmentation
- 34. Release of phosphates and nitrates in water bodies (i.e., in rivers and lakes) leads to
 - a) Biomagnification b) Reduced algal growth c) Increased algal growth
 - d) Increased growth of decomposers
- 35. Which of the following is not used for disinfection of drinking water?

- a) Chlorine b) Ozone c) Chloramine d) Phenyl
- 36. The given graph shows how much nitrate $(NO_3^-]$) is exported from the continent towards the ocean by 16 major rivers in the world compared to the density of human populations living along those drainage basins (i.e., along these rivers). What interpretation can be drawn from this graph?



a)

Nitrate exported through rivers from heavily populated cities can cause eutrophication and toxic algal bloom in marine coastal regions.

- b) Small drainage basins export more NO_3^-
- c) Drainage basins with higher population densities export lesser NO_3^-
- d) Both (a) and (c)
- 37. Photochemical smog
 - a) Heat emission due to bomb explosion
 - b) Production of useful ecological effect by a previously useful chemical
 - c) Formation of secondary pollutant from reaction of primary pollutants
 - d) Production of adverse ecological effect by a previously useful chemical
- 38. Peroxyacyl nitrates (PAN) are formed through photo photochemical reactions between
 - a) sulphur oxides and hydrocarbons b) nitrogen oxides and hydrocarbons
 - c) nitrogen oxides and O₃ d) CFCI₃ and O₃'
- 39. Measuring Biochemical Oxygen Demand (BOD) is a method used for ______
 - a) estimating the amount of organic matter in sewage water.
 - b) working out the efficiency of oil driven automobile engines.
 - c)

measuring the activity of Saccharomyces cerevisae in producing curd on commercial scale.

- d) working out the efficiency of RBCs about their capacity to carry oxygen.
- 40. Read the given statements and select the correct option.

Statement 1 : Traffic jams are likely to cause giddiness, exhaustion, reduced vision, etc.

	Statement 2: Carbon monoxide from vehicles causes these problems by reducing Orcarrying capacity of haemoglobin. a) Both statements 1 and 2 are correct b) Statement 1 is correct but statement 2 is incorrect. c) Statement 1 is incorrect but statement 2 is correct. d) Both statements 1 and 2 are incorrect.
41.	Which one of the following is a wrong statement? a) Most of the forests have been lost in tropical areas. b) Ozone in upper part of atmosphere is harmful to animals. c) Greenhouse effect is a natural phenomengn. d) Eutrophication is anatural phenomenon in freshwater bodies
42.	Which one of the following organism is used as indicator of water quality? a) Beggiatoa b) Chlorella c) Azospirillum d) Escherichia
43.	Assertion: Bharat stage IV emission norms have been in place since April 2010, for 4 wheelers in 13 mega cities of India. Reason: Green muffler scheme refers to the plantation of trees and shrubs along road sides and is effective to control noise pollution only. 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.
44.	c) If assertion is true but reason is false. d) If both assertion and reason are false. A disease caused by eating fish contaminated by industrial waste, containing mercury compounds, is called as a) osteosclerosis b) Hashimoto's disease c) Bright's disease d) Minamata disease.
45.	In stratosphere, which of the following elements acts as a catalyst in degradation of ozone and release of molecular oxygen a) Fe b) Cl c) Carbon d) Oxygen
	Compressed Natural Gas (CNG) is: a) propane b) methane c) ethane d) butane Global agreement in specific control strategies to reduce the release of ozone- depleting substances, was adopted by a) the Montreal Protocol. b) the Kyoto Protocol. c) the Menna Convention. d) rio de Janeiro Conference.

48.	Spraying of pesticide is an example of
	a) Point source water pollution b) Diffuse water pollution c) Both (1) & (2)
	d) Pyrolysis
49.	Which important greenhouse gas, other than methane, is being produced from the agricultural fields?
	a) Arsine b) Sulphur dioxide c) Ammonia d) Nitrous oxide
50.	Motor vehicles equipped with catalytic converter are advised to use unleaded petrol because
	a) lead is a heavy metal b) lead causes inactivation of catalyst
	c) lead decreases the efficiency of vehicle d) lead increases burning of petrol.
51.	Which of the following are the correct approaches to reduce global warming? (i) Use of fossil fuels (ii) Improving efficiency of energy usage (iii) Afforestation (iv) Increasing growth of human population a) (i) and (ii) b) (ii) and (iii) c) (iii) and (iv) d) (i), (ii) and (iii)
52.	Oil spills causes mass scale death of fishes due to a) Clogging of gills b) Disruption of food chain c) Non-availability of food d) All of these
53.	Acoustic zoning is related with a) Soil pollution b) Noise pollution c) Water Pollution d) Solid waste
54.	Phosphate pollution is brought about by a) phosphate rocks b) automobile exhausts c) sewage and phosphate rocks d) sewage and agricultural fertilisers.
55.	Read and select the incorrect option about desertification. a) A desert is created when barren patches of land meet. b) Desertification is the result of increasedurbanisation. c) Deserts are arid patches of land. d) Slash and burn method is one of the major cause of desertification.
56.	The most common indicator organism that represents polluted water is a) E.coli b) P. typhi c) C. vibrio d) Entamoeba
57.	Which of the following is mainly produced by the activity of anaerobic bacteria on sewage? a) Laughing gas b) Propane c) Mustard gas d) Marsh gas
58.	Which of the following statements is correct?

- a) There are working 'Ecosan' toilets in many areas of Kerala and Sri Lanka. b) Municipal solid wastes are wastes from homes, offices, stores, schools, hospitals, etc., that are collected and disposed by the municipality. c) In a sanitary landfill, wastes are dumped in a depression or trench after compaction and covered with dirt everyday. d) All of these 59. Which of the following isotopes is most dangerous to human beings? a) Phosphorus-32 b) Strontium-So c) Caesium-137 d) Iodine-131 60. Corrosion of Taj Mahal is due to the conversion of CaCO₃ into a) $CaSO_4$ and $CaNO_3$ b) $Ca(OH)_2$ c) CaO d) All of these 61. is highly hazardous to animal health but on plants this gas does not seen to show adverse effect. a) CO b) CO₂ c) SO₂ d) NO₂ 62. In stratosphere, which one of the following elements acts as a catalyst in degradation of ozone and release of molecular oxygen? a) Fe b) Cl c) Carbon d) Oxygen 63. Which of the following is not one of the prime health risks associated with greater UV radiation through the atmosphere due to depletion of stratospheric ozone? a) Reduced Immune System b) Damage to eyes c) Increased liver cancer d) Increased skin cancer 64. Match correctly the following and choose the correct option. i Environment Protection Act A 1974 ii Air Prevention and Control of Pollution Act B 1987 C 1986 iiiWater Act ivAmendment of Air Act to include noise D1981 a) A -(iii), B-(iv), C-(i), D-(ii) b) A-(i), B-(iii), C-(ii), D-(iv) c) A-(iv), B-(i), C-(ii), D-(iii) d) A-(iii), B-(iv), C-(ii), D-(i).
- 65. Which of the following statements are incorrect regarding the Euro II norms?
 - a) It stipulates that sulphur be controlled at 350 pp min diesel.
 - b) It stipulates that sulphur be controlled at 150 ppm in petrol.
 - c) Aromatic hydrocarbons are to be contained at 42% of the concerned fuel.
 - d) None of these

66. Assertion: Cultural eutrophication is nutrient enrichment of water bodies due to human activities like passage of sewage, industrial effluents, etc.

Reason: The prime contaminants from sewage and industrial effluents are nitrates and phosphates, which act as plant nutrients and overstimulate the growth of algae.

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 both assertion and reason are false.
- 67. Assertion: Montreal protocol, was signed at Montreal (Canada) in 1987 to control the emission of ozone depleting substances.

Reason: Kyoto protocol, held in Kyoto (Japan) in 1997, has specified the commitments of different countries to mitigate climate change.

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 both assertion and reason are false.
- 68. Which of the following pairs of gases is mainly responsible for green house effect?
 - a) Oxygen and Nitrogen b) Nitrogen and Sulphur dioxide
 - c) Carbon dioxide and Methane d) Ozone and Ammonia
- 69. The expanded form of DDT is
 - a) dichloro diphenyl trichloroethane b) dichloro diethyl trichloroethane
 - c) dichloro dipyrydyl trichloroethane d) dichloro diphenyl tetrachloroacetate
- 70. Which of the following statements is not correct regarding biomagnification?
 - (i) Mercury accumulated by an organism cannot be metabolised.
 - (ii) In the process of biomagnification, concentration of DDT is increased at successive trophic levels.
 - (iii) Accumulation of cadmium can cause thinning of egg shell in birds.
 - (iv) DDT accumulation is a major cause of reduced population of fish eating birds.
 - (v) Biomagnification occurs only in aquatic food chain.
 - a) (i), (iii) and (v) b) (iii) and (iv) c) (iii) and (v) d) (i), (ii) and (iv)
- 71. Algal blooms impart a distinct colour to water due to

	formation of coloured chemicals in watedacilitated by physiological degradation of algae
	b) absorption of light by algal cell wall.c) their pigmentsd) excretion of coloured substances
72.	Which one of the following statements is not valid for aerosols? a) They are harmful to human health b) They alter rainfall and monsoon patterns c) They cause increased agricultural productivity d) They have negative impact on agricultural land
73.	The major source of noise pollution, worldwide is due to a) office equipment b) transport system c) sugar, textile and paper industries
	d) oil refineries and thermal power plants.
74.	dB is a standard abbreviation used for the quantitative expression of a) the density of bacteria in a medium b) a particular pollutant c) the dominant Bacillus in a culture d) a certain pesticide
75.	Which of the following statements regarding eutrophication are correct? (i) Eutrophication is the natural ageing of a lake by nutrient enrichment of its water. (ii) Pollutants from human activities like effluents from the industries and homes can radically accelerate the aging process of a lake. This phenomenon is called as cultural or accelerated eutrophication. (iii) The plant nutrients responsible for eutrophication are nitrates and phosphates. (iv) These phosphates and nitrates accelerate the growth of algae, which utilise oxygen and may deoxygenate the water to kill the fish and other aquatic animals. a) (i) and (ii) b) (iii) and (iv) c) (i), (ii) and (iii) d) (i), (iii) and (iv)
76.	Minamata disease was caused due to the consumption of: a) sea food containing lot of cadmium b) fish contaminated with mercury c) oysters with lots of pesticides d) sea food contaminated with selenium
77.	The zone of atmosphere in which the ozone layer is present is called a) lonosphere b) Mesosphere c) Stratosphere d) Troposphere
78.	More than 7 % of world's freshwater is /contained in a) polar ice b) glaciers and mountains c) Antarctica d) greenland
79.	The major ozone depleting substance out of the following is: a) CFCs b) O_2 c) nitrogen d) all of these
80.	Global agreement to reduce the release of ODS is. a) Vienna Convention b) Rio de Janeiro Conference c) Kyoto Protocol d) Montreal Protocol

- 81. In the human-induced process called acid precipitation, the main biogeochemical cycles that are altered are the _____ cycles and one effect in lakes is to _____ population of nitrifying bacteria. a) phosphorus and nitrogen, decrease b) nitrogen and sulphur, decrease c) nitrogen and sulphur, increase d) phosphorus and sulphur, decrease 82. Which among the following is likely to have the highest levels of DDT deposition in its body? a) Sea gull b) Phytoplankton c) Eel d) Crab 83. Match column I with column II and select the correct option from the given codes. Column - I Column -II A Catalytic converter Used in industries and power plants B Electrostatic precipitator ii Used in automobiles iii High noise level CEarmuffs DLand fills ivSolid wastes a) A·(i), B-(ii), C-(iii), D-(iv) b) A-(ii), B-(i), C-(iii), D-(iv) c) A-(iv), B-(iii), C-(ii), D-(i) d) A-(iii), B-(ii), C-(iv), D-(i) 84. Read the following statements and select the correct ones. (i) Ahmed Khan, a plastic sack manufacturer of Bangalore, in 1998, developed polyblend, a fine powder of recycled modified plastic. (ii) In collaboration with RV College of Engineering and Bangalore City Corporation, he proved that the mixture of polyblend and bitumen was better for road carpeting as it had better water repellent property. (iii) By 2002, more than 40 km roads of Bangalore were laid with the help of Khan's mixture. (iv) Rag pickers who used to get Rs 0.40 per kg of plastic waste started getting Rs 6.00 from Ahmed Khan. (v) Innovation like polyblend might help the modern society from being smothered with plastic waste. a) (i), (ii) and (iii) b) (ii), (iv) and (v) c) (iii), (iv) and (v) d) All of these 85. A dental disease characterised by mottling of teeth is due to the presence of certain chemical element in drinking water. Which of the following is that element?
- 86. Non-biodegradable pollutants are created bya) nature b) excessive use of resources c) humans d) natural disasters87. A brief exposure to 150 dB sound maya) damage ear drums b) cause permanent impairing hearing ability
 - c) cause temporary impairing hearing ability d) both (a) and (b).

b) Boron c) Mercury d) Chlorine

a) Fluorine

88.	Pollutant responsible for causing pheophytization is a) SO ₂ b) NO _x c) CO ₂ d) Aeroallergens
89.	Green house gases are a) Absorbers of long-wave radiations from earth
	b) Transparent to both solar radiations and longwave radiations from earth
	c) Absorbers of incoming solar radiations for warming the atmosphere
	d) Transparent to emissions from earth for passage into outer space
90.	In an area where DDT had been used extensively, the bird population declined significantly due to
	a) Birds stopped laying eggsb) Earthworms disappeared from the areac) Many of the birds egg did not hatchd) Snakes started feeding extensively on birds
91.	Which of the following is referred to as the world's most problematic aquatic weed? a) Abelmoschus esculentus b) Eichhornia crassipes
	c) Parthenium hysterophorus d) Planktonic algae
92.	Choose the incorrect statement.
	The Montreal protocol is associated with the control of emission of ozone depleting substances.
	b) Methane and carbon dioxide are greenhouse gases.c) Dobson units are used to measure oxygen content.d) Use of incinerators is crucial to disposal of hospital wastes.
93.	Waterlogging and soil salinity are some of the problems that have come in a) Soil erosion b) White revolution c) Green revolution d) Blue revolution.
94.	Minamata disease is due to a) Oil spill in water b) Arsenic into the atmosphere
	c) Industrial waste having mercury in water d) Organic waste into drinking water
95.	Among the following which one causes more indoor chemical pollution? a) Burning coal b) Burning cooking gas c) Burning mosquito coil d) Room spray
96.	Secondary sewage treatment is mainly a a) physical process b) mechanical process c) chemical process d) biological process
97.	Select the correct arrangement of the types of ultraviolet radiations according to the intensity of their effect on human skin.

- a) UV-A > UV-B > UV-C
 b) UV-B > UV-C > UV-A
 c) UV-C > UV-B > UV-A
 d) UV-A > UV-C > UV-B
 98. Which one is not a pollutant normally?
- a) Hydrocarbons b) Carbon dioxide c) Carbon monoxide d) Sulphur dioxide
- 99. Which of the following statements are correct?
 - (i) Benzene hexachloride (BHC) is a non-biodegradable pollutant.
 - (ii) Anthropogenic air pollutants are natural in origin.
 - (iii) Carbon monoxide is a primary air pollutant.
 - (iv) Sulphur dioxide causes brown air effect during traffic congestion in cities.
 - a) (i) and (iii) b) (i) and (ii) c) (ii) and (iii) d) (ii) and (iv)
- 100. The effect of today's radioactive fallout will probably be more harmful to children of future generation than to present day children because
 - a) infants are more susceptible to radiations
 - b) susceptibility to radiations increase with age
 - c) mutated genes are usually recessive d) all of these
- 101. Consider the following statements (i) (iv) about organic farming:
 - (i) Utilizes genetically modified crops like Bt cotton
 - (ii) Uses only naturally produced inputs like compost
 - (iii) Does not use pesticides and urea.
 - (iv) Produces vegetables rich in vitamins and minerals.

Which of the above statements are correct?

- a) (ii) and (iii) b) (i) and (ii) c) (ii), (iii) and (iv) d) (iii) and (iv)
- 102. Match column I with column II and select the correct option from the given codes.

Column -			Column - II
A Bishnoi co	mmunity	i	Rajasthan
B Chipko mo	vement	ii	Reducethe emission of ozone depleting substances
CMontreal p	rotocol	iii	Garhwal Himalayas
DKyoto prot	ocol	iν	Reducethe emission of greenhouse gases

- a) A-(i), B-(iii), C-(ii), D-(iv) b) A-(i), B-(iii), C-(iv), D-(ii)
- c) A-(iii), B-(i), C-(ii), D-(iv) d) A-(iii), B-(i), C-(iv), D-(ii)
- 103. A prolonged exposure to noise at 95 dB can produce
 - a) respiratory trouble b) skin cancer
 - c) nervous tension and increased blood pressure d) digestive spasm.
- 104. Match column I with column II and select the correct option from the given codes.

Column		Column II
AMercury	i	Methaemoglobinemia (or Blue baby syndrome)
BNitrate	ii	Black foot disease

	Column I		Column II
C	Arsenic	iii	Itai-itai disease
D	Cadmium	i۷	Minamata disease

- a) A-(iv), B-(i), C-(ii), D-(iii) b) A-(iv), B-(i), C-(iii), D-(ii)
- c) A-(ii), B-(iii), C-(i), D-(iv) d) A-(ii), B-(iv), C-(i), D-(iii)
- 105. Why is it necessary to remove sulphur from petroleum products?
 - a) To reduce the emission of sulphur dioxide in exhaust fumes.
 - b) To increase efficiency of automobiles engines.
 - c) To use sulphur removed from petroleum for commercial purposes.
 - d) To increase the life span of engine silencers.
- 106. Increased asthmatic attacks in certain seasons are related to
 - a) eating fruits preserved in tin containers b) inhalation of seasonal pollen
 - c) low temperature d) hot and humid environment.
- 107. Which of the following is correct for infrared radiations?
 - a) They are long wave radiations. b) The are short wave radiations
 - c) They are visible radiations d) None of these.
- 108. In Minamata Bay of Japan, the animals which remained free from Minamata disease, are .
 - a) pigs b) rabbits c) dogs d) cats
- 109. The concept of Joint Forest Management (JFM) involves
 - a) conservation of forest and agricultural land by the government
 - b) conservation of forest and agricultural land by the government

c)

work in close association with the local communities for protecting and managing forests

- d) exploitation of beneficial forest products only.
- 110. BOD in river water:
 - a) Remains unchanged when algal bloom occurs
 - b) Increases when sewage gets mixed up with river water
 - c) Has no relationship with concentration of oxygen in water
 - d) Give a measure for Salmonella in water
- 111. Assertion: Contribution of CO_2 , CH_4 , CFCs and N_2O towards greenhouse effect is respectively 60%, 6%, 14% and 20%.

Reason: Greenhouse gases are radioactively active gases which prevent the short wavelength radiations emitted by earth to escape into space

	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 both assertion and reason are false.
112.	Limit of BOD prescribed by Central Pollution Control Board for the discharge of industrial and municipal wastewaters into natural surface waters is a) < 10 ppm b) < 100 ppm c) < 30 ppm d) < 3.0 ppm
113.	Which of the following can cause DNA damage and mutations in humans? a) Absorption of UV-A and UV-B b) Absorption of UV-B c) Absorption of UV-A d) Absorption of UV-A and UV-C
114.	In India, Air (Prevention and Control of Pollution) Act came into force in the year 1981, but was amended In the yearto includeas an air pollutant. a) 1990, noise b) 1984, particulate matter c) 1987, PAN d) 1987, noise
115.	A lake with an inflow of domestic sewage rich in organic waste may result in a) drying of the lake very soon due to algal bloom b) an increased growth of fishes due to lot of nutrients c) death of fish due to lack of oxygen d) increased population of aquatic food web organisms.
116.	Which one of the following is the correct percentage of the two (out of the total of 4) greenhouse gases that contribute to the total global warming? a) CFCs 14%, Methane 20% b) CO ₂ , 40%, CFCs30% c) N ₂ O6%, CO ₂ 86% d) Methane 20%, N ₂ O 18%
117.	If there was no CO ₂ in the earth's atmosphere the temperature of earth's surface would be a) same as present b) less than the present c) higher than the present dependent on the amount of oxygen in the d) atmosphere
118.	Find odd one out w.r.t. e-waste importers
	a) India b) Pakistan c) China d) America
119.	Assertion: Evencs refers to a scientific method of treating e-wastes in an environment friendly manner. Reason: Recycling of e-wastes in developed countries often involves manual
	participation and exposes the workers to toxic substances present in e-wastes.

	a)
	f both assertion and reason are true and reason is the correct explanation of assertion.
I	o) f both assertion and reason are true but reason is not the correct explanation of assertion
C	c) If assertion is true but reason is false. d) If both assertion and reason are false.
() () () () () () () () () () ()	Some statements are given below each with one or two blanks. Select the option that correctly fills up the blanks. (i) High concentration of DDT disturbs in birds, which causes (ii) burns more efficiently as compared to petrol and diesel. (iii) is the natural ageing of a lake which occurs due to accumulation of (iv) reduces the number of organisms which are sensitive to high temperature. (iv) Irreparable computers and other electronic goods are known as (i) calcium metabolism, thinning of egg shell (ii) CNG (iii) Eutrophication, nitrates and phosphates (iv) Thermal wastewater (v) electronic waste (ii) protein metabolism, thickening of egg shell (ii) CNG (iii) Eutrophication, nitrates and phosphates (iv) Thermal wastewater (v) electronic waste (iii) calcium metabolism, thinning of egg shell (ii) Coal (iii) Biomagnification, nitrates and phosphates (iv) Organic wastewater (v) inorganic waste (iii) calcium metabolism, thickening of egg shell (ii) CNG (iii) Biomagnification, DDT and mercury (iv) Thermal wastewater (v) electronic waste
121. (Ozone depletion is occurring widely in
a	a) troposphere b) stratosphere c) ionosphere d) all of these
	Formation of ozone hole is maximum over a) India b) Antarctica c) Europe d) Africa
6	Snow - blindness in Antarctic region is due to a) High reflection of light from snow b) Damage of retina caused by infra-red rays c) Freezing of fluids in the eye by low temperature d) Inflammation of cornea due to high dose of UV-B radiation
124. <i>A</i>	A location with luxuriant growth of lichens on the trees indicates that the

	a) trees are very healthy.b) trees are heavily infested.c) location is highly polluted.d) location is not polluted
125	Chlorofluorocarbons are air polluting agents which are produced by
120.	a) diesel trucks b) jet planes c) rice fields d) cellphones
126.	Assertion: There is a sharp decline in dissolved oxygen downstream from the point of sewage discharge.
	Reason: Microorganisms involved in biodegradation of organic matter in the receiving water body consume a lot of oxygen. 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 both assertion and reason are false.
127.	When huge amount of sewage is dumped into a river, its BOD will a) increase b) decrease c) sharply decrease d) remain unchanged
128.	Assertion: A brief exposure to extremely high sound level, 150dB or more generated by take off of a jet plane or rocket, may damage ear drum or dislocate ear ossicles and permanently impair the hearing ability.
	Reason: In India, the Air (Prevention and Control of Pollution) Act came into force in 1981, but was amended in 1987 to include noise as an air pollutant. 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 both assertion and reason are false
129.	A lake near a village suffered heavy mortality of fishes within a few days. Consider the following reasons for this?
	 Lots of urea and phosphate fertiliser were used in the crops in the vicinity. The area was sprayed with DDT by an aircraft.
	3. The lake water turned green and stinky.
	4. Phytoplankton populations in the lake declined initially thereby greatly reducing photosynthesis.

Which two of the above were the main causes of fish mortality in the lake?

a) (2) and (3) b) (3) and (4) c) (1) and (3) d) (1) and (2)

130.	The major contributor of green-house gases to the atmosphere is a) Russia b) USA c) Germany d) Brazil
131.	Which of the following causes biomagnification? a) SO ₂ b) Mercury c) DDT d) Both (b) and (c)
132.	Sewage drained into water bodies kill fishes because a) excessive carbon dioxide is added to water b) it gives off a bad smell c) it removes the food eaten by fish d) it increases competition with fishes for dissolved oxygen
133.	Which one of the following statements is wrong in case of Bhopal tragedy? a) Methyl Isocyanate gas leakage took place. b) Thousands of human beings died. c) Radioactive fall out engulfed Bhopal. d) It took place in the night of December 2/3 1984.
134.	Prolonged liberal irrigation of agricultural fields is likely to create the problem of
135.	a) Acidity b) Aridity c) Salinity d) Metal toxicity Acid rain is due to a) O ₃ , PAN b) Oxides of nitrogen and sulphur c) Green house effect d) All of these
136.	The dB is a standard abbreviation used for the quantitative expression of: a) A particular pollutant b) The dominant Bacillus in a culture c) A certain pesticide d) The density of bacteria in a medium
137.	In coming years, skin-related disorders will be more common due to a) air pollution b) use of detergents c) water pollution d) depletion of ozone layer
138.	Readthe given statements and select the correct option. Statement 1: Reforestation is the process of restoring a forest that once existed but was removed at some point of time in the past. Statement 2: Reforestation may occur naturally in a deforested' area, however it can be speeded up by planting trees with due consideration to biodiversity that earlier existed in that area. a) Both statements 1 and 2 are correct. b) Statement 1 is correct but statement 2 is incorrect. c) Statement 1 is incorrect but statement 2 is correct.
139.	Steps taken by the Government of India to control air pollution include

a) compulsory PUC (pollution Under Control) certification of petrol-driven vehicles which tests for carbon monoxide and hydrocarbons.

b) permission to use only pure diesel with a maximum of 500 ppm sulphur as fuel for vehicles.

c)

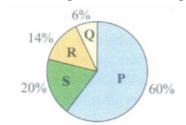
use of non-polluting Compressed Natural Gas (CNG) only as fuel by all buses and trucks.

d)

a)

compulsory mixing of 20% ethyl alcohol with petrol and 20% biodiesel with diesel.

- 140. Which particulate size is most harmful?
 - a) 1.0 f.Lm or less b) 1.5 f.Lm or less c) 2.5 f.Lm or less d) 5.2 f.Lm 2.5 f.Lm
- 141. Blue-baby syndrome is due to the
 - a) As b) NO₃ c) Cd d) Hg
- 142. Given pie-diagram represents the relative contribution of various greenhouse gases to total global warming. Identify the gases P, Q, R and S.



Р	Q	R	S
N ₂ O	CFCs	CO_2	Methane
d)			
Р	Q	R	S
CO_2	CFCs	N_2O	Methane

D)			
Р	Q	R	S
N_2O	Methane	CFCs	CO_2

c)			
Р	Q	R	S
CO_2	N_2O	CFCs	Methane

- 143. Study the following statements regarding acid rain and select the incorrect ones.
 - (i) Acid rain refers to the rainfall and other forms of precipitation with a pH of less than 5.
 - (ii) Oxides of sulphur and nitrogen are released from automobile exhausts, industries, power plants, etc.
 - (iii) These oxides of sulphur and nitrogen, may react with water in the air and form sulphuric acid (H₂SO₄) and nitric acid (HNO₃).
 - (iv) Acid rain has harmful effects on animals and human beings but no characteristic impact on plants.
 - a) (i) and (iii) b) (iii) and (iv) c) (iv) only d) (ii) only

ا ما

144. A scrubber in the exhaust of a chemical industrial plant removes _____.

	c) gases like ozone and methane.
	d) particulate matter of th e size 2.5 micrometer or less
145.	The Taj Mahal is threatened due to the effect of
	a) oxygen b) hydrogen c) chlorine d) sulphur dioxide
146.	Polyblend is
	a) a mixture of two different types of plastics
	b) a fine powder of recycled modified plastic c) a blend of plastic and bitumen
	d) none of these.
147.	Which of the following is a method used to get rid of particulate matter present in the exhaust from a thermal power plant? a) Magnetic precipitator b) Chromatography c) Electrostatic precipitator d) Mass spectrometry
148.	National Forest Policy of India has recommended <u>(i)</u> forest cover for the plains and <u>(ii)</u> for the hills.
	a) b) c) d)
	(i) (ii) (i) (ii) (ii) (ii) (ii) (iii) 33% 67% 67% 33% 50% 50% 40% 60%
149.	Nuisance growth of aquatic plants and bloom- forming algae in natural waters is
	generally due to high concentrations of
	a) carbon b) sulphur c) calcium d) phosphorus
150.	In the textbook you came across Three Mile Island and Chernobyl disasters
	associated with accidental leakage of radioactive wastes. In India we had Bhopal

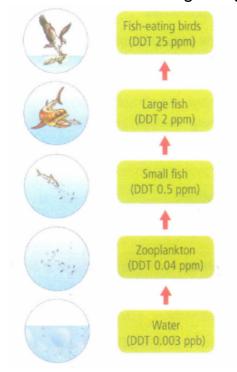
a) gases like sulphur dioxide.

b) particulate matter of the size 5 micrometer or above.

gas tragedy. It is associated with which of the following?

a) CO₂ b) Methyl Isocyanate c) CFC's d) Methylcyanate

151. Given figure represents biomagnification of DDT in an aquatic food chain. Select the incorrect statement regarding this.



a)

When agricultural fields are sprayed with DDT, it is carried by runoff water into nearby aquatic bodies.

b)

River water may have a very low concentration of DDT, but the arnivorous fish in that river may contain high concentration of DDT, which is still suitable for consumption by human beings.

c)

Increased concentration of DDT in birds affects calcium metabolism due to which egg shells become thin and break before maturity.

- d) None of these
- 152. Which of the following is the most suitable indicator of S02 pollution in the environment?
 - a) Lichens b) Conifer c) Algae d) Fungi
- 153. Contamination of water with sewage is indicated by cysts of
 - a) Escherichia b) Entamoeba c) Pseudomonas d) Leishmania
- 154. Increase in concentration of the toxicant at successive trophic levels is known as:
 - a) Biogeochemical cycling b) Biomagnification c) Biodeterioration
 - d) Biotransformation
- 155. Amrita Devi Bishnoi Wildlife Protection Award is for the individuals or communities from rural areas that have shown extraordinary courage in
 - a) reducing environmental pollution b) reducing global warming
 - c) protecting wildlife d) reforestation in deforested area.

156.	Greenhouse effect is due to
	a) accumulation of O ₃ and depletion of CO ₂ b) accumulation of both O ₃ and CO ₂
	c) accumulation of CO ₂ and depletion of O ₃
	d) presence of green plants on the Earth.
157.	The term 'terror of Bengal' is used for a) algal bloom b) Eichhornia crassipes
	c) increased biochemical oxygen demand d) eutrophication.
158.	Montreal Protocol is associated with a) control of emission of ozone depleting substances
	b) control of radioactive wastes c) control of desertification
	d) protection and management of forests.
159.	The CO ₂ content by volume, in the atmospheric air is about a) 0.0314% b) 0.34% c) 3.34% d) 4%
160.	World ozone day is celebrated on
	a) 16th September b) 21st April c) 5th June d) 22nd April
161.	Which is not a control measure to reduce particulate matter in environment?
	a) Cyclonic separators b) Scrubbers c) Effluent treatment
	d) Electrostatic precipitator
162.	Assertion: Through the use of catalytic converters, unburnt hydrocarbons are changed into carbon monoxide which in turn is changed into nitrogen oxides and water.
	Reason: Motor vehicles equipped with catalytic converters should use leaded petrol to protect the catalyst from degradation. 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 both assertion and reason are false.
163.	Montreal protocol aims at a) biodiversity conservation. b) control of water pollution. c) control of CO ₂ emission. d) reduction of ozone depleting substances.
164.	Chemicals responsible for the Bhopal gas tragedy were a) CO ₂ and CH ₄ b) phosgene and methyl isocyanate
	c) polychlorinated biphenyls d) dichloro diphenyl trichloroethane.

165.	Volcanic eruptions let out large quantities of
	a) H ₂ O vapours and sulphurous gases b) Harmful dust and nitrous gases
	c) Harmful dust and shoot d) Harmful dust and phosphorous gases
166.	Phosphate pollution is mainly caused by
	a) phosphate rock only b) agricultural fertilizers only
167	c) sewage and phosphate rocks d) sewage and agricultural fertilizers
107.	The loudness of a sound that a person can withstand without discomfort is about a) 150 db b) 215 db c) 30 db d) 80 db.
168.	Escherichia coli is used as an indicator organism to determine pollution of water with
	a) pollen of aquatic plantsb) heavy metalsc) fecal matterd) industrial effluents
169.	Size of particulate matter which can cause maximum damage to human health is a) 25 μ m b) 20 μ m c) 2.5 μ m d) 5 μ m
170.	Biochemical oxygen demand may not be good index for water bodies receiving effluents:
	a) Sugar industry b) Domestic sewage c) Dairy industry d) Petroleum industry
171.	Which of the following statements is not correct regarding jhum cultivation? a) It is also called as shifting cultivation and has resulted in deforestation.
	b) It helps in increasing crop yield to a considerable extent
	c)
	A time-gap of several years is required for the recovery of the land after cultivation d)
	It involves cutting down of trees of the forest, burning of the plant remains and then using the land for farming.
172.	Montreal protocol was signed in 1987 for control of
	a) Release of Green House Gases b) DisPosal of e-wastes
	c) Transport of Genetically modified organisms from one country to another
	d) Emission of ozone-depleting substances
173.	Which of the following is not a cause of natural pollution?
	a) Volcanic eruption b) UV radiation c) Forest fire d) Mercury
174.	Read the foilowing statements carefully.
	(i) An electrostatic precipitator removes particulate matter by imposing negative charge on them.
	(ii) Catalytic converters convert unburnt hydrocarbons into CO ₂ and water.

	(iii) Peroxyacyl nitrates (PAN) is a secondary pollutant.(iv) DDT is a non-biodegradable pollutant.Which of the above statements are incorrect?a) (i) and (ii) b) (iii) and (iv) c) (i) and (iii) d) None of these
175.	Read the following statements regarding the PAN (Peroxyacyl nitrates) and select the correct ones. (i) It is a secondary pollutant present in photochemical smog. (ii) It is produced by photochemical reactions between hydrocarbons and nitrogen oxides in the presence of sunlight or UV radiations. (iii) It is thermally unstable and decomposes into peroxyethanoyl radicals and nitrogen dioxide gas.
	(iv) It is a lachrymatory substance, causing irritation of eyes. a) (i) and (ii) b) (iii) and (iv) c) (i), (ii) and (iii) d) (i), (iii), (iii) and (iv)
176.	The concentration of polychlorinated biphenyls (PCB, an organochloride contaminant) in many fish populations has been declining, since a ban on their production was instituted in the late 1970s. PCBs remain a potential problem, however, because they are lipophilic and are known to biomagnify. Based on this knowledge, what type of fish is expected to be safest for human consumption? a) Fish species with high fat content
	b) Piscivorous fish species (i.e., which eat other fish)
	c) Benthivorous fish species (i.e., which eat invertebrates on the lake bottom)
	d) Small (young) fish
177.	Catalytic converters, which are fitted into automobiles for reduonq the emission of poisonous gases possess which of the following metals as catalyst? a) Platinum-Palladium b) Rhodium c) Lead d) Both (a) and (b)
178.	Ozone layer of upper atmosphere is being destroyed by a) chlorofluorocarbons b) SO ₂ c) O ₂ and CO ₂ d) smog
179.	A major component of gobar gas is a) ammonia b) methane c) ethane d) butane
180.	Read the following statements and select the correct option.
	Statement 1 : Ozone layer present in the stratosphere protects the living organisms from harmful UV rays coming from sun by absorbing nearly all of them. Statement 2 : Ozone formed in the troposphere by photochemical reactions as a result of human activities is harmful for all living organisms. a) Both statement 1 is correct but statement 2 is incorrect.
	b) Statement 1 is correct but statement 2 is incorrect.

	c) Statement 1 is incorrect but sta	at	ement 2 is correct.
	d) Both statements 1 and 2 are in	nc	correct.
181.	In 1984, Bhopal gas tragedy was	s c	caused due to the leakage of
	a) potassium isocyanate b) sod	Jit	um monoxide c) sodium thiocyanate
	d) methyl isocyanate		
182.	Match the items in column I and	C	olumn II and choose the correct option.
	Column - I		Column - II
	A UV i		Biomagnification
	B Biodegradable organic matteri	i	Eutrophication
	C DDT i	ii	Snow blindness
	D Phosphates i	٧	BOD
	a) A-(ii), B-(i), C(iv), D-(iii) b) A-	-(i	ii), B-(ii), C-(iv), D-(i) c) A-(iii), B-(iv), C-(i), D-(ii)
	d) A-(iii), B-(i), C-(iv), D-(ii).		
183.	Which one of the following stater	ne	ents regarding CO gas is correct?
	a) It is produced by the complete) C	combustion of fossil fuels.
	b) It combines with haemoglobin	to	o form carbamino haemoglobin.
	c)		
	It impairs oxygen transport result	tin	ng in giddiness, headache, asphyxia and even
	death.		
	d) All of these		
184.	Assertion: Photochemical smog i	is	mainly composed of nitrogen oxides, volatile
	organic compounds, ozone and p	ре	eroxyacyl nitrates.
	Reason: Photochemical smog develops in cold weather conditions by the interaction		
	of secondary pollutants.		
	a)	4	
	assertion.	tr	ue and reason is the correct explanation of
	b) If both assertion and reason are	tri	ue but reason is not the correct explanation of
	assertion		de but reason is not the correct explanation of
	c) If assertion is true but reason i	is	false. d) If both assertion and reason are false.
185.	In which one of the following the	В	OD (Biochemical Oxygen Demand) of sewage (s),
	_		effluent (PE) and sugar mill effluent (SE) have been
	arranged in ascending order?		
	a) SE b) PE c) S d) SE		
186.	Sound becomes hazardous noise	е	pollution at level
	a) above 30 dB b) above 80 dB	3	c) above 100 dB d) above 120 dB

187.	High concentration of nutrients especially nitrates and phosphates in water can accelerate which of the following phenomenon? a) Algal bloom b) Eutrophication c) Biomagnification d) Both (a) and (b)
188.	Which is not a natural source of CH ₄ in environment? a) Biomass burning b) Termites c) Gut of ruminants d) Rice fields
189.	The material generally used for sound proofing of rooms like a recording studio and auditorium, etc. is a) cotton b) coir c) wood d) styrofoam
190.	Which of the following statements is not correct regarding algal blooms? a) Algal blooms are formed by blue-green algae.
	b) Growth of Eichhornia crassipes causes colouration.
	c) Increased growth of algae causes depletion of O ₂ in water.
	d) Algal blooms cause deterioration of water quality and fish mortality.
191.	Assertion: An equilibrium is established between generation and destruction of ozone, leading to a steady state concentration of ozone layer in the stratosphere at an altitude of 20-30 km above sea level. Reason: The thickness of the ozone layer is generally larger above the equator and smaller above the poles. 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 both assertion and reason are false
192.	DDT is a) a non-degradable pollutant b) an antibiotic c) a biodegradable pollutant d) not a pollutant
193.	Wastes may be sealed in concrete-filled drums and discharged to a depth of about 500 m. This specific statement is true for a) γ -radiation pollutants b) UV radiation pollutants c) β -particle pollutants d) All radioactive pollutants
194.	Acid rain (a) Causes necrosis (b) Convert chlorophyll-a into pheophytin (c) Responsible for formation of PAN

a) Only (a) and (b) are correctb) Only (b) and (c) are correctc) Only (a) is correctd) Only (c) is correct	
 195. Read the following statements carefully and select the incorrect ones. (i) Development of the fertile top-soil takes centuries, but it can be easily removed due to human activities such as over-cultivation, unrestricted grazing, etc. (ii) Waterlogging results in soil salinity. (iii) UV rays are responsible for degradation of ozone shield in atmosphere. (iv) Ozone present in troposphere acts as a shield absorbing UV radiations coming from the Sun. (v) Global warming can be controlled by increasing the use of fossil fuels. a) (i), (iii) and (v) b) (iii), (iv) and (v) c) (iv) and (v) d) (i), (ii) and (iii) 	
196. The Air Prevention and Control of Pollution Act came into force in a) 1957 b) 1981 c) 1985 d) 1990	
197. Major aerosol pollutant in jet plane emission isa) sulphur dioxide b) carbon monoxide c) methane d) chlorofluorocarbons	
 198. Accelerated eutrophication occurs due to a) increase in amount of dissolved oxygen b) disposal of waste rich in nitrates and phosphates c) increase in concentration of DDT and mercury in water d) unsafe disposal of radioactive wastes. 	
199. Assertion: An electrostatic precipitator (ESP) is a particulate collection device that removes dust and smoke particles from flowing air using the force of an induced electrostatic charge.Reason: An ESP is a highly efficient device as it removes 99 percent of particulat matter present in the exhaust from a thermal power plant.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 both assertion and reason are fals	e.
200. The green scum seen in the freshwater bodies is: a) blue green algae b) red algae c) green algae d) both (a) and (c)	
201. Joint Forest Management concept was introduced in India during: a) 1960s b) 1970 c) 1980s d) 1990	
202. Kyoto Protocol was endorsed at	

	a) Cop-5 b) Cop-6 c) Cop-4 d) Cop-3
203.	The zone of atmosphere in which ozone layer is present is. a) Troposphere b) Stratosphere c) Mesosphere d) Ionosphere
204.	Montreal protocol which calls for appropriate action to protect the ozone layer from human activities was passed in the year a) 1987 b) 1988 c) 1985 d) 1986
205.	What of the following is a secondary pollutant? a) SO ₂ b) CO ₂ c) CO d) O ₃
206.	Disease caused by eating fish found in water contaminated with industrial waste having mercury is a) Minamata disease b) Bright's disease c) Hashimoto's disease d) Osteosclerosis
207.	The Chipko movement was launched for protection of: a) Forests b) Grasslands c) Wetlands d) Livestock
208.	Assertion: Sewage, industrial effluents and waste water are non-point sources of water pollution. Reason: Surface runoff is point source of water pollution. 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 both assertion and reason are false
209.	Fluoride pollution initially affects: a) kidneys b) teeth c) heart d) brain
210.	Which one of the following is mismatched? a) Fossil fuel burning - Release of CO ₂ b) Nuclear power - Radioactive wastes c) Solar energy - Greenhouse effect d) Biomass burning - Release of CO ₂
211.	Which of the following is correct regarding 'El Nino' Effect? a) Temperature rise leads to odd climatic changes b) Cutting down the use of fossil fuels c) Planting more trees d) Slowing down the growth of human population
242	
∠ I ∠.	Which of the following conference obtained commitments from different countries for reducing overall green house gas emission at a level 5% below 1990 level by 2008-2012?

c) Montreal Protocol, 1987 d) Helsinki Declaration, 1989 213. Assertion: Compressed natural gas (CNG) is natural gas under pressure and mainly composed of methane. Reason: One of the advantages of using CNG as a fuel in automobiles is that it requires very less space for storage as compared to that of petrol or diesel. 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 both assertion and reason are false. 214. Polyblend, a fine powder of recycled modified plastic' has proved to be a good material for . a) use as a fertilizer b) construction of roads c) making tubes and pipes d) making plastic sacks 215. In 1984, Bhopal gas tragedy took place because methyl isocyanate ____. a) reacted with DDT b) reacted with ammonia c) reacted with CO₂ d) reacted with water 216. Given below are some differences between primary air pollutants and secondary air pollutants. Which one of the following is an incorrect difference? a) Primary air pollutants Secondary air pollutants These persist in the form in which they are These are formed by interaction among added to the environment. the primary pollutants b) Primary air pollutants Secondary air pollutants These are less toxic than the These are more toxic than the secondary pollutants. primary pollutants. d) None of these c) Primary air pollutants Secondary air pollutants

a) Kyoto Protocol, 1997 b) Earth Summit, Rio-de-Janeiro, 1992

- 217. Select the correct match of air pollution source with the type of pollutant and the effect it produces.
 - a) Chemical factory \rightarrow NO₂ \rightarrow Ozone hole
 - b) Automobile exhaust $\to N_2O \to Asphyxia$ effect

Examples include DDT, CO₂Examples Ozone, PAN

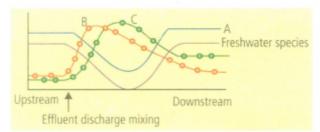
	c) Heavy industry→ CO ₂ →Acid rain
	d) Incinerators \rightarrow NO _x gases \rightarrow Photochemical smog
218.	Which of the following protocols did aim for reducing of chloro-fluoro-carbons into the
	atmosphere? a) Kyoto Protocol b) Gothenburg Protocol c) Geneva Protocol d) Montreal Protocol
219.	Which one of the following statements is incorrect regarding Bhopal gas tragedy? a) Methyl isocyanate gas leakage took place.
	b) Thousands of human beings died. c) Radioactive fallout engulfed Bhopal. d) It took place in the night of December 2/3, 1984.
220.	The Government of India has passed the environment (Protection) Act in the year a) 1990 b) 1987 c) 1986 d) 1992
221.	A higher biochemical oxygen demand in a particular segment of a river indicates that a) the segment is free from pollution b) the segment is highly polluted
	c) aquatic life has started flourishing
	d) the river has high number of aquatic animals.
222.	Which of the following materials takes the longest time for biodegradation? a) Cotton b) Paper c) Bone d) jute
223.	Acid rain is caused by increase in the atmospheric concentration of a) SO_3 and CO b) CO_2 and CO c) O_3 and dust d) SO_2 and NO_2
224.	Read the given statements and select the correct option. Statement 1 : Average temperature of Earth has increased by O.6°C during the past century.
	Statement 2: There has been a progressive increase in the use of fossil fuels generating more greenhouse gases. a) Both statements 1 and 2 are correct.
	b) Statement 1 is correct but statement 2 is incorrect.
	c) Statement 1 is incorrect but statement 2 is correct.
	d) Both statements 1 and 2 are incorrect.
225.	Noise pollution may cause nervousness and irritability by stimulating the secretion of a) thyroid hormone b) adernaline hormone c) parathyroid hormone d) none of these.
226.	Select the correct statement out of the following.

	a) Electrostatic precipitators (ESPs) can remove over 99% particulate matter present in the exhaust from a thermal power plant.
	b) Over half of the e-wastes generated in developed countries are exported to developing countries, mainly to China, India and Pakistan, where metals like Cu, Fe, Si, Ni, etc., are recovered during recycling process.
	c) Use of nuclear energy has two very serious inherent problems first is accidental leakage and the second is safe disposal of radioactive wastes.
	d) All of these
227.	Catalytic converters are fitted into automobiles to reduce emission of harmful gases. Catalytic converters change unburnt hydrocarbons into: a) carbon dioxide and water b) carbon monooxide c) methane d) carbon dioxide and methane.
228.	A renewable exhaustible natural resource is a) coal b) petroleum c) minerals d) forest
229.	Given below are four statements each with two blanks. Select the option which correctly fills up the blank in any two statements. (i) Bhopal gas disaster took place on 1984 and this day is now observed as the day in India to make the anniversary of the Bhopal gas disaster. (ii) is a biodegradable pollutant while is a non-biodegradable pollutant.
	 (iii) When pollutants are released from a single point it is calledpollution, but when it is over a large area, then it is calledpollution. (iv) is the world's most problematic aquatic weed, introduced in India for its lovely flowers, also called as a) (i) December 5, National pollution prevention (iv) Parthenium, terror of Bengal b) (i) December 2, Bhopal gas tragedy (ii) DDT, sewage c) (ii) Sewage, DDT (iii) point source, non-point source
	d) (iii) line source, fixed source (iv) Eichhornia, tiger of Bengal
	Which of the following is the most dangerous metal pollutant of automobile exhaust? a) Cadmium b) Copper c) Mercury d) Lead
231.	Ultraviolet radiations from sunlight cause a reaction which produces a) O ₃ b) SO ₂ c) CO d) CH ₄
232.	Which one is the correct percentage of greenhouse gases? a) Methane - 20%, N_2O - 18% b) CFCs-14%, Methane - 20% c) CO_2 - 40%, CFCs- 30% d) N_2O - 6%, CO_2 -86%

233. Match column I with column II and select the correct option from the given codes

	Column - I		Column - II
Α	Nitrates	i	Primary pollutant
В	E-Wastes	ii	Minamata disease
С	Mercury	iii	Secondary pollutant
D	DDT	iv	Blue-baby syndrome
E	PAN	٧	Electronic wastes

- a) A-(ii), B-(iv), C-(v), D-(i), E-(iii) b) A-(iv), B-(v), C-(ii), D-(i), E-(iii)
- c) A-(iv), B-(v), C-(iii), D-(ii), E-(i) d) A-(ii), B-(v), C-(iv), D-(i), E-(iii)
- 234. Global warming can be controlled by .
 - a) Reducing reforestation, increasing the use of fossil fuel.
 - b) Increasing deforestation, slowing down the growth of human population.
 - c) Increasing deforestation, reducing efficiency of energy usage.
 - d) Reducing deforestation, cutting down use of fossil fuel.
- 235. Domestic waste constitutes .
 - a) non-biodegradable pollution b) biodegradable pollution c) effluents
 - d) air pollution
- 236. The graph given below represents changes in different ecological parameters due to effluent mixing in a stream. The three lines A, B and C represent



- A: oxygen concentration A: pollutant
- B: biological O₂ demand B: aerobic process
- a) C: pollution resistant species b) C: anaerobic process
 - A: oxygen concentration A: phosphate concentration
 - B: CO₂ concentration B: nitrate concentration
- c) C: temperature d) C: rate of photosynthesis.
- 237. Bone cancer is caused by
 - a) Iodine -127 b) Strontium 90 c) Caesium 137 d) Phosphorous 32
- 238. Read the following statements regarding particulate matter and select the incorrect ones.
 - (i) Particulate matter (PM) consists of shoot, flyash, dust, spores, pollen grains, etc.
 - (ii) Particulate matter is differentiated into settleable (larger than 10 urn. remaining in air for less than one day) and suspended (less than 10 urn remaining In air for more than one day to several weeks) particulate matter.

- (iii) SPM (Suspended particulate matter) consists of aerosol, dust and mist.
- (iv) Particulate matter causes respiratory diseases such as tuberculosis, allergy and many more diseases in animals and plants.
- (v) According to Central Pollution Control Board (CPCB), particulate size of 2.5 urn or less in diameter are responsible for causing the greatest harm to human health.
- a) (i) and (ii) b) (iii) and (iv) c) (ii) only d) None of these
- 239. Eutrophication of water bodies leading to kilting of fishes is mainly due to non-availability of _____.
 - a) light b) essential minerals c) oxygen d) food
- 240. Which one is wrong statement?
 - a) Ozone in the upper part of atmosphere is harmful to animals
 - b) Greenhouse effect is a natural phenomenon
 - c) Eutrophication is a natural phenomenon in freshwater bodies
 - d) Most of the forests have been lost in the tropical area
- 241. The following table summarises the differences between biodegradable and non-biodegradable pollutants. Pick out the wrong differences and select the correct answer.

	Biodegradable pollutants	Non-biodegradable pollutants
(i)	These are the pollutants which can be easily degraded by micro-organisms.	These are the pollutants which can not be degraded into harmless materials.
(ii)	These can be used to produce energy (through biogas), compost, manure, etc	These are difficult to manage as natural method of degradation is absent.
(iii)	These usually do not enter biogeochemical cycles.	These become a part These become a part biogeochemical cycles.
(iv)	Examples: DDT, BHC, plastics, polyethylene, glass, etc.	Examples: Sewage, garbage, animal waste, etc.

- a) (i) and (iv) b) (ii) and (iv) c) (iii) and (iv) d) (ii), (iii) and (iv)
- 242. With its very large population of vehicular traffic, Delhi is one of the most polluted cities of the world. Which of the following steps were taken by the government to reduce vehicular pollution in Delhi?
 - (i) Switching over the entire fleet of public transport ie., buses, autorickshaws, from diesel to CNG
 - (ii) Phasing out of old vehicles
 - (iii) Use of unleaded petrol in vehicles
 - (iv) Use of low sulphur petrol and diesel in vehicles

- (v) Use of catalytic converters in vehicles
- (vi) Application of stringent pollution level norms for vehicles such as Euro II norms, etc.
- a) (ii) and (iv) b) (ii), (iv) and (v) c) (iv) and (v) d) All of these
- 243. Assertion: Heavy metals and persistent pesticides pass into the food chain and increase in amount per unit weight of the organism at successive trophic levels. Reason: Heavy metals and persistent pesticides can be easily metabolised by the organism's body.

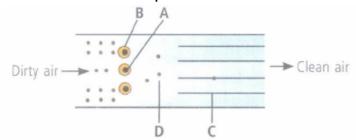
a)

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 both assertion and reason are false.
- 244. Given below is a diagram of electrostatic precipitator. Identify A, B, C and D and select the correct option.



a)

Na vetivali, alcanno d. Na vetivali, alcanno d. divet.		
Negatively charged Negatively charged dust D	Discharge	Collection
wire particles	corona	plate

b)

Α	В	С	D
Negatively charged	Discharge	Collection	Negatively charged dust
wire	corona	plate	particles

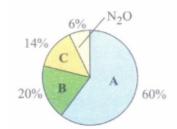
c)

A	В	С	D
Positively charged	Positively charged dust	Discharge	Collection
wire	particles	corona	plate

d)

Α	В	С	D
Positively charged	Discharge	Collection	Positively charged dust
wire	corona	plate	particles

- 245. Which one of the following pairs is mismatched.
 - a) Fossil fuel burning release of CO₂ b) Nuclear power radioactive wastes
 - c) Solar energy greenhouse effect d) Biomass burning release of CO₂
- 246. Euro-II (April 2000) is emission norms for reducing
 - a) O₃ and CO b) NO₂ and N₂O c) Sulphur and Aromatic hydrocarbons
 - d) CO₂ and particulate matter
- 247. The products resulting from atmospheric reactions of hydrocarbons and nitrogen oxides in the presence of sunlight are called
 - a) Primary pollutant b) Secondary pollutant c) Tertiary pollutant
 - d) Non-pollutant
- 248. Given pie-diagram represents the relative contribution of various GHGs to total global warming. Select the correct statement(s) regarding A, B and C.



- a) A is the gas which is produced during the combustion of fossil fuels.
- b) B are the chemicals which are used as coolants in refrigerators.
- c) C is the gas which is the major constituent of biogas. d) All of these.
- 249. Biochemical Oxygen Demand (BOD) in a river water _____.
 - a) has no relationship with concentration of oxygen in the water.
 - b) gives a measure of Salmonella in the water.
 - c) increases when sewage gets mixed with river water.
 - d) remains unchanged when algal bloom occurs.
- 250. Atmosphere of big metropolitan cities is polluted most by _____.
 - a) automobile exhausts b) pesticide residue c) household waste
 - d) radioactive fall-out
- 251. Which is not an effect of global warming?
 - a) More extreme weather condition b) Poleward shifting of organism
 - c) Rise of sea level d) Good fungal growth in soil
- 252. Increasing skin cancer and high mutation rate are the result of:
 - a) ozone depletion b) acid rain c) CO pollution d) CO₂ pollution
- 253. According to Central Pollution Control Board (CPCB). Which particulate size in diameter (in micrometers) of the air pollutants is responsible for greatest harm to human health:
 - a) 2.5 or less b) 1.5 or less c) 1.0 or less d) 5.2 2.5

- 254. Select the correct match. a) Integrated farming: Ramesh Chandra Dagar b) Integrated waste water treatment: Ahmed Khan c) Solid waste management: Ramesh Chandra Dagar d) E-waste management: Chandi Prasad Bhatt 255. According to the Central Pollution Control Board, particles that are responsible for causing great harm to human health are of diameter a) 2.50 micrometers b) 5.00 micrometers c) 10.00 micrometers d) 7.5 micrometers 256. The worst environmental hazards were created by accidents in nuclear power plant and MIC gas tragedy respectively in a) Russia in 1990 and Bhopal in 1986 b) Ukrainian 1988 and USA in 1984 c) Bhopal in 1984 and Russia in 1990 d) Ukrainian 1986 and Bhopalin 1984 257. World's most problematic aquatic weed is: a) Azalia b) Walffia c) Eichharnia d) Trapa 258. Select the correct statement regarding integrated organic farming. a) It is a cyclical, zero waste procedure where waste products from one process are cycled in as nutrients for other processes. b) In this process, industrial wastes is used to manufacture product such as polyblend c) In this process, chemical fertilisers are used to increase yield d) both (a) and (c) 259. Which of the following statements regarding ozone is incorrect? a) 'Good ozone' is formed in the lower atmosphere (troposphere) that absorbs harmful UV rays coming from Sun; 'bad ozone' is present in the upper part of atmosphere (stratosphere) that harms plants and animals. b) The thickness of the ozone in a column of air from the ground to the top of the atmosphere is measured in terms of Dobson units (DU). c) Recognising the deleterious effects of ozone depletion, an international treaty, known as the Montreal Protocol, was signed at Montreal (Canada) in 1987 (became effective in 1989) to control the emission of ozone depleting substances. d) None of these
- 260. The smog which is formed at high temperature is

	a) London smog b) Classical smog c) Los Angeles smog d) Sulphurous smog
261.	Highest DDT deposition shall occur in a) phytoplankton b) sea gull/birds c) crab d) eel
262.	Carbon monoxide is a pollutant because a) reacts with O ₂ b) it inhibits glycolysis c) it reacts with hemoglobin d) it makes nervous system inactive
263.	If there is no greenhouse effect, then the average temperature at surface of earth would have been: a) 15 ⁰ C b) -18 ⁰ C c) -6 ⁰ C d) 10 ⁰ C
264.	Painful skeletal deformities called itai-itai is caused due to a) Cd b) Hg c) CO d) NO ₂
265.	Which one of the following statements is not valid for aerosols? a) They alter rainfall and monsoon patterns. b) They cause increased agricultural productivity. c) They have negative impact on agricultural land.

d) They are harmful to human health