

GPLUS EDUCATION

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BIOLOGY

ENVIRONMENTAL ISSUES

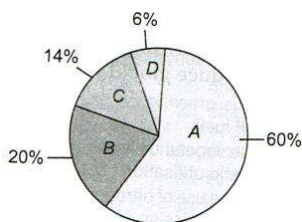
Single Correct Answer Type

- Catalytic converters are fitted into automobiles to reduce the emission of harmful gases. Catalytic converters changes unburnt hydrocarbons into
 - Carbon dioxide and water
 - Carbon monoxide
 - Methane
 - Carbon dioxide and methane
- What percentage of total area in hilly regions does the National Forest Policy (1988) suggest to be under forests?
 - 67%
 - 33%
 - 64%
 - 34%
- Increase the atmospheric temperature due to CO_2 is called
 - Pasteur effect
 - Green house effect
 - Blackman effect
 - Emerson effect
- Which one of following is not an air pollutant?
 - Pollen from plants
 - phosphates
 - Carbon monoxide
 - Hydrocarbon
- DDT residues are rapidly passed through food chain causing biomagnifications because DDT is
 - Lipo soluble
 - Moderately toxic
 - Non-toxic to aquatic animals
 - Water soluble
- Rain is called acid rain when its pH is below
 - 7
 - 6.5
 - 6
 - 5.6
- CFCs are responsible for
 - Ozone layer depletion
 - Global warming
 - Acid rain
 - None of these
- Acid rain is due to
 - CO_2 and H_2O
 - CO_2 and NO_2
 - SO_2 and NO_2
 - SO_2 and N_2O
- Noise is
 - Loud sound
 - Sound of high frequency
 - Unwanted sound
 - Constant sound
- Domestic sewage contains nutrients like nitrogen and phosphorus which favours the excessive growth of planktonic (free floating) algae which can accelerate which of the following phenomenon?
 - Algal bloom
 - Biomagnification
 - Eutrophication
 - Both (a) and (c)
- High level radioactive waste can be managed in which of the following ways?
 - Open dumping
 - Composting
 - Incineration
 - Dumping in sealed containers
- Polyblend is mixed with ...A... to lay roads in ...B... . Complete the given statement by choosing appropriate option for A and B
 - A-bitumen; B-Bengaluru
 - A-carbon; B-Delhi
 - A-plastic; B-Kolkata
 - A-cement; B-Chennai
- Most hazardous metal pollutant of automobile exhaust is
 - Cadmium
 - Lead
 - Mercury
 - Copper
- Which one of the following is mainly responsible for green houses effect?
 - SO_2
 - CO_2
 - CO
 - O_2
- Which one of the following pairs is mismatched?
 - Biomass burning --- Release of CO_2
 - Fossil fuel burning --- Release of CO_2
 - Nuclear power ---- Radioactive wastes
 - Solar energy --- Green house effect
- Consider the following statements

- I. Soil without a vegetation cover is eroded by both wind and water
 II. Excessive irrigation results in water logging of soil
 III. Increased salt concentration damages agriculture

Which of the statements given above are correct?

- a) I and II b) I and III c) II and III d) I, II and III
17. In India, the Air Prevention and Control of pollution Act came into force in ...A..., but was amended in ...B... to include ...C... as an air pollutant
 Complete the given statement by choosing appropriate option for A-C
 a) A-1980, B-1986, C-water b) A-1981, B-1987, C-noise
 c) A-1982, B-1988, C-radioactive d) A-1983, B-1989, C-soil
18. Which method is used to remove particulate matter present in exhaust of thermal power plant?
 a) Wet scrubbers b) Absorption
 c) Electrostatic precipitator d) Gravitational method
19. Restoring a forest cover over an area where one existed earlier but was removed at some point of time in the past is called
 a) Reforestation b) Afforestation c) Deforestation d) None of these
20. For the control of air pollution in Delhi, all buses of Delhi were converted to run on ...A... by the end of ...B... as per the directives of the ...C...
 Complete the given statement by choosing appropriate options for A-C
 a) A-compressed natural gas, B-2000, C-High Court
 b) A-Shale gas, B-2001, C-Central Government
 c) A-compressed natural gas, B-2002, C-Supreme Court
 d) A-Liquid pressure gas compressed natural gas, B-2003, C-Delhi Government
21. Green house gases are
 a) CFCs, CO_2 , NH_4 and NO_2
 b) O_2 , N_2 and NO_2
 c) N_2 , CO_2 and NH_4
 d) None of the above
22. In which state of India, Ecosave toilets are not found?
 a) Kerala b) Delhi c) Sri Lanka d) None of these
23. Identify the correctly matched pair.
 a) Montreal protocol - Global warming b) Kyoto protocol - Climate change
 c) Ramsar convention - Ground water pollution d) Basal convention - Biodiversity conservation
24. Study carefully the following pie diagram representing the relative contribution of various greenhouse gases to total global warming. Identify the gases A, B, C and D



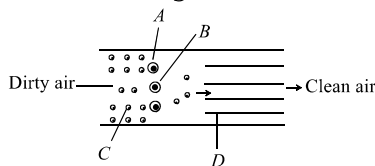
- a) A- N_2O , B - CO_2 , C - CH_4 , D - CFCs b) A- CO_2 , B - CH_4 , C - CFCs, D - N_2O
 c) A- CH_4 , B - CFCs, C - N_2O , D - CO_2 d) A-CFCs, B - N_2O , C - CO_2 , D - CH_4
25. The main cause of pollution in metro cities is
 a) Burning of fossil fuels
 b) Water plants
 c) Domestic products
 d) None of these
26. Chipko movement (1974) is the world's known eco development programme, started by Sunder Lal

- Bahuguna in Tehri Garhwal (Uttarakhand). It is associated with
 a) Plant conservation b) Deforestation c) Reforestation d) Afforestation
27. Which one of the following is a most efficient device to eliminate particulate matters from the industrial emissions?
 a) Cyclonic separators b) Trajectory separators
 c) Pyrolysis d) Electrostatic precipitator
28. Kyoto protocol is related with
 a) Ozone layer depletion
 b) Green house effect
 c) Water pollution
 d) Conservation of wildlife
29. is an undesirable change in physical, chemical or biological characteristics of air, land, water or soil
 a) Pollution b) Ecological disturbance
 c) Ecological deterioration d) Adulteration
30. For the best ecological balance, land mass of a country in plains covered with forests
 a) 23% b) 33% c) 44% d) 35%
31. Desertification has become a major problem due to
 a) Decreased natural resources b) Increased urbanization
 c) Increased population d) All of the above
32. Why CNG is considered as good fuel over diesel/petrol?
 I. CNG burns most efficiently without leaving any unburnt remnant behind
 II. CNG is cheaper than petrol or diesel
 III. CNG cannot be siphoned off by thieves and adulterated like petrol or diesel
 Which of the statements given above are correct?
 a) I and II b) I and III c) II and III d) I, II and III
33. Eutrophicated lake has BOD
 a) Lower
 b) Higher
 c) Dependent on climate
 d) May be lower or higher
34. 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
35. Consider the following statements about harmful effects of radioactive pollution
 I. Radiations from nuclear wastes causes mutation at a very high rate
 II. At high doses, nuclear radiations are lethal
 III. At low doses, radiations cause disorders and cancer
 Which of the statements given above are correct?
 a) I and II b) I and III c) II and III d) All of these
36. In 2002 AD, according to research, the concentration of CFC_s reached to
 a) 368 ppm b) 1750 ppb c) 261 ppt d) 326 ppb
37. Photochemical smog formed in congested metropolitan cities mainly consist of
 a) Ozone, peroxyacetyl nitrate and NO_x b) Smoke, peroxyacetyl nitrate and SO₂
 c) Hydrocarbon, SO₂ and CO₂ d) Hydrocarbon, ozone and SO₂
38. If there is no greenhouse effect, the average temperature at the surface of earth would have been
 a) 15°C b) -18°C c) -6°C d) 20°C
39. A disease caused by eating fish contaminated by industrial waste containing mercury compounds is known as

- a) Bright's disease b) Minamata disease c) Hashimoto disease d) Osteosclerosis
40. The cause of decline in the population of reptiles and birds is
a) DDT b) Biofertilizer c) Bioinsecticides d) Sewage
41. Consider the following statements regarding deforestation
I. It is removal, decrease or deterioration of forest cover of an area
II. It leads to soil erosion
III. Deforestation often causes flash floods
IV. Deforested area can be used variously as cropland, industrial area, residential area, fallow land, etc.
Which of the statements given above are correct?
a) I, II and III b) II, III and IV c) I, III and IV d) I, II, III and IV
42. Increase in concentration of a toxicant at successive trophic levels is called
a) Eutrophication b) Accelerated eutrophication
c) biomagnification d) Cultural eutrophication
43. In the town of Arcata situated on northern coast of ...A..., an integrated waste water treatment process was developed with the help of biologists from ...B... . Here A and B refers to
a) A-Florida; B-Barry University b) A-California; B-Humboldt State University
c) A-Florida; B-Abilence Christian University d) A-California; B-Becker University
44. Secondary sewage treatment is mainly a
a) Mechanical process b) Chemical process c) Biological process d) Physical process
45. Which of the following diseases is related to cadmium pollution?
a) Minamata b) Pneumoconiosis c) Anaemia d) Itai-itai
46. Shell of egg in bird becomes thin (not properly formed) due to the pollution of pesticides. This occurs due to disturbed
a) Calcium metabolism b) Phosphorus metabolism
c) Sodium metabolism d) Potassium metabolism
47. Which of the following are the main harmful effects of deforestation?
I. Increase in carbon dioxide concentration in atmosphere
II. Loss of biodiversity due to habitat destruction
III. Disturbance in hydrologic cycle
IV. Desertification
Which of the statements given above are correct?
a) I, II and III b) II, III and IV c) I, III and IV d) I, II, III and IV
48. Study the following statements regarding Ecosave toilet and select the incorrect ones
a) They are working in Shri Lanka and Kerala
b) Composting method for recycling of human excreta
c) Recycled materials forms natural fertilisers
d) Enhance the need for chemical fertilisers
49. The atmosphere around earth is warmed because
a) Warm air cannot escape, as in a greenhouse
b) Molecules in the atmosphere are warmed by radiation from earth and retain that heat
c) Fossil fuels release heat
d) Plants release CO₂
50. Which of the following is not used for disinfection of drinking water?
a) Phenyl b) Chloramines c) Chlorine d) Ozone
51. Earth's climate
a) Has been stable over the history of the planet
b) Is changing as a result of natural and human processes
c) Will stabilize over the next century, according to the predictions of most scientists
d) Has been documented to have changed once due to the evolution of green photosynthesizing plants

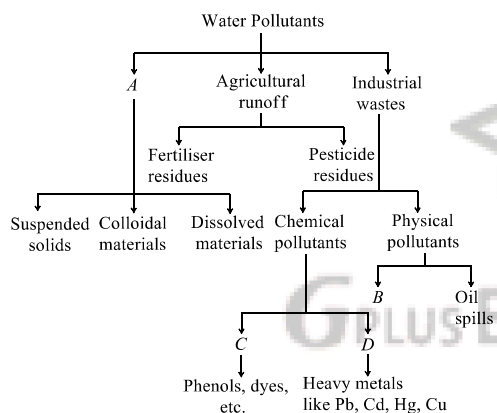
52. Jhum cultivation refers to
 a) Cultivation of neem trees
 b) Cultivation of medicinal plants
 c) Tribal methods of shifting cultivation
 d) Cultivation of timber plants
53. Which of the following is not a green house gas?
 a) Water vapour
 b) Carbon monoxide
 c) Methane
 d) Oxygen
54. Minamata occurs in
 a) Japan
 b) Australia
 c) India
 d) China
55. In an area where DDT had been used extensively, the population of birds declined significantly because
 a) Snake were feeding exclusively on birds
 b) Many of the birds eggs laid, did not hatch
 c) Bird stopped laying eggs
 d) None of the above
56. The concept of Joint Forest Management (JFM) involves
 a) Work in close association with the local communities for protecting and managing forests on mutual benefits
 b) Conservation of forest and agricultural land by the NGOs
 c) Conservation of forest and agricultural land by the state government
 d) Conservation of forest and agricultural land by the local communities
57. According to Kyoto protocol, the major nations abide to reduce concentration of green –house gases by
 a) 2008
 b) 2010
 c) 2012
 d) 2018
58. This pollutant causes burning sensation of throat and eyes and vomiting sensation.
 a) Hydrogen sulphide
 b) Sulphur
 c) Hydrogen cyanide
 d) Arsenic substances
59. Drinking of mineral water with very low level of pesticides (about 0.02 ppm) for long periods may
 a) Produce immunity against mosquito
 b) Cause leukaemia (blood cancer) in most people
 c) Cause cancer of the intestine
 d) Lead to accumulation of pesticide residues in body fat
60. The major goal of the green revolution was to
 a) Decrease the use of modern farm equipment
 b) Decrease population growth
 c) Increase agricultural production
 d) Increase population growth
61. In scrubber, the exhaust is passed through a
 a) Spray of water
 b) Spray of time
 c) Both (a) and (b)
 d) Spray of hot water
62. During day time, sound level is silent zone is
 a) 50 dB
 b) 70 dB
 c) 20 dB
 d) 30 dB
63. In India, Jhum cultivation is practiced mainly in
 a) North eastern states of India
 b) Western ghats of India
 c) Gangetic plains
 d) Deccan plateau
64. The unfavorable alteration of environment due to human activities is termed as
 a) Ecological disturbance
 b) Catastrophe
 c) Ecological degradation
 d) Pollution
65. CO₂, CH₄, N₂O and CFCs are called green house gases, because they can absorb
 a) Ultraviolet radiation
 b) Long wave infra-red radiation
 c) Visible light radiation
 d) X-rays radiation
66. Which one of the following is a correct option with reference to pathogenic bacteria and DDT?
 a) Bacteria can undergo multiplication and DDT is degraded by living cells
 b) Bacteria can be degraded by living cells and DDT can not be degraded by living cells.
 c) Bacteria can undergo biological magnification and DDT can be degraded by living cells.
 d) Bacteria can undergo biological magnification and DDT can not be degraded by living cells.
67. Expanded form of BOD is

80. BOD is concerned with
 a) Microbes
 b) Organic matter
 c) Microbes and organic matter
 d) None of the above
81. In electrostatic precipitator, electrode wires are provided with an electric current of several thousand volts, which produces a corona that release ...A...
 These electron attach to dust particle and given them a ...B... charge within a very small fraction of a second. Here A and B refers to
 a) A-electron; B-positive
 b) A-neutron; B-negative
 c) A-electron; B-negative
 d) A-proton; B-positive
82. Cutting of trees in a forest is called
 a) Reforestation
 b) Afforestation
 c) Deforestation
 d) None of these
83. The gradual continuous increase in average temperature of surface of the earth as a result of increase in concentration of CO₂ and CFCs is termed as
 a) Global warming
 b) Greenhouse effect
 c) Ozone degradation
 d) Montreal protocol
84. Which one of the following is a major pollutant of automobile gases?
 a) Carbon monoxide
 b) Oxides of nitrogen
 c) Oxides of sulphur
 d) Carbon dioxide
85. Which of the following are the example of industrial solid wastes?
 a) Scraps
 b) Flyash
 c) Both (a) and (b)
 d) Irreparable computers
86. The below diagram shows electrostatic precipitator. Identify A, B, C, D and select the correct option



- a) A-Dust particle, B-Negatively charged wire, C-Discharge corona, D-Collection plate grounded
 b) A-Discharge corona, B-Collection plate grounded, C-Dust particle, D-Negatively charged wire
 c) A-Discharge corona, B-Negatively charged wire, C-Dust particle, D-Collection plate grounded
 d) A-Discharge corona, B-Dust particle, C-Negatively charged wire, D-Collection plate grounded
87. World most problematic aquatic weed is
 a) *Azolla*
 b) *Wolffia*
 c) *Eichhornia*
 d) *Trapa*
88. Solid waste can be
 a) Biodegradable
 b) Non-biodegradable
 c) Both (a) and (b)
 d) None of these
89. Addition of phosphate and nitrates/fertiliser into water and that water ultimately draining into lake firstly affects
 a) Growth of aquatic organisms in lake
 b) Eutrophication of lake
 c) The environment of lake
 d) Organic remains deposited on the lake bottom
90. Biomagnification is highest in
 a) Producers
 b) Primary consumers
 c) Secondary consumers
 d) Decomposers
91. Ozone (O₃) depletion is due to
 a) PAN
 b) NO_x
 c) CFCs
 d) Sulphates
92. Polyblend
 a) Enhance the bitumen's water repellent properties
 b) Helps to increase the life of road
 c) Both (a) and (b)
 d) Is a type of magnet which improve blood circulation when applied in human body part
93. The ozone layer is found in
 a) Troposphere
 b) Mesosphere
 c) Stratosphere
 d) Atmosphere
94. Which of the following health problem originates due to the inhalation of fine particulate matter?

- a) Irritation
 c) Damage of lungs and premature deaths
- b) Inflammation
 d) Eunuchoidism
95. Irreparable computers and other electronic goods are known as
 a) Electronic waste
 c) Electronic industrial waste
- b) Radioactive waste
 d) Solid waste
96. Eutrophication is excessive growth of algae, plants and animals in water-bodies due to nutrient enrichment particularly with
 a) Nitrogen and phosphorus
 c) Sodium and calcium
- b) Calcium and phosphorus
 d) Nitrogen and calcium
97. Peeling of ozone umbrella, which protects us from UV rays, is caused by
 a) CFCs
 b) CO₂
 c) PAN
 d) Coal burning
98. Chipko movement was started in Garhwal, Himalayas in
 a) 1973 by Shri Sunder Lal Bahuguna
 c) 1974 by Shri Sunder Lal Bahuguna
- b) 1973 by a Bishnoi Woman Amrita Devi
 d) 1974 by a Bishnoi Woman Amrita Devi
99. Ultraviolet radiations from sunlight causes a reaction that produces
 a) Fluorides
 b) Carbon monoxide
 c) Sulphur dioxide
 d) Ozone
100. Ozone hole is largest over
 a) Antarctica
 b) New York
 c) Arctic
 d) Tokyo
101. The below chart shows the sources of water pollution



Read carefully the chart and identify, A, B, C, and D

- a) A-Domestic sewage, B-Thermal (hot) waste water, C-Organic compound, D-Inorganic compounds
 b) A-Chemical sewage, B-Industrial waste water, C-Inorganic compound, D-Organic compounds
 c) A-Industrial sewage, B-Domestic waste water, C-Phenol group, D-Heavy metallic group
 d) A-Sewage, B-Chemical industry waste water, C-Organic compound, D-Inorganic compounds
102. Ozone depletion is occurring widely in
 a) Ionosphere
 b) Stratosphere
 c) Both (a) and (b)
 d) Troposphere
103. Fluoride pollution mainly affects
 a) Teeth
 b) Kidney
 c) Brain
 d) Heart
104. Chipko movement was successfully launched by
 a) SL Bahuguna
 b) HL Bahuguna
 c) KL Bahuguna
 d) Amrita Devi
105. Stirred-tank bioreactors have been designed for
 a) Addition of preservatives to the product
 b) Purification of the product
 c) ensuring anaerobic condition in the culture vessel
 d) Availability of oxygen throughout the process
106. What did Chernobyl, Three Mile Island, the Love Canal and Bhopal, India all have in common?
 a) They were all radioactive disasters
 b) They were environmental problems caused by global warming

- c) They were involved environmental racism
d) They were all technological disasters caused by solid wastes
107. Which of the following statement pertaining to pollutants is correct?
a) DDT is non-biodegradable pollutant
b) Excess fluoride in drinking water causes osteoporosis
c) Excess cadmium in drinking water causes black foot disease
d) Methyl mercury in water may cause 'Itai-Itai' disease
108. What device is fitted to automobiles for reducing the emission of poisonous gases like NO₂ and CO?
a) Catalytic converters
b) Electrostatic precipitator
c) Scrubber
d) Bag filter
109. Amrita Devi Bishnoi wildlife protection award is given to the individuals or communities from
a) Rural areas
b) Urban areas
c) NGOs
d) Hilly areas
110. Which of the following are the indicators of pollution?
a) Lichen
b) Fungi
c) Algae
d) None of these
111. To remove which pollutants, enzymatic filters are used?
a) Hydrocarbons
b) Lead
c) Nitrogen pollutants
d) Chloride pollutants
112. What is the major cause of desertification?
a) Urbanization
b) Greenhouse effect
c) El Nino effect
d) Both (a) and (c)
113. ESP is to arrest
a) Water pollution
b) Air pollution
c) Radioactive pollution
d) Soil pollution
114. Which are sensitive to SO₂ pollution?
a) Mosses
b) Algae
c) Lichen
d) Ferns
115. Reforestation is useful for
a) Increasing the fertility of soil
b) Reducing floods
c) Preventing soil erosion and spread of deserts
d) All of the above
116. Which of the following metals is a water pollutant and causes sterility in human being?
a) As
b) Mn
c) Mg
d) Hg
117. Limit of BOD prescribed by Central Pollution Control Board for the discharge of industrial and municipal waste water into natural surface water, is
a) < 3.0 ppm
b) < 10 ppm
c) < 100 ppm
d) < 30 ppm
118. Eutrophication is caused by
a) Acid rain
b) Nitrates and phosphates
c) Sulphates and carbonates
d) CO₂ and CO
119. Examples of regional pollution are
a) Acid rain
b) Smog
c) Both (a) and (b)
d) None of these
120. World Summit on Sustainable Development (2002) was held in
a) Brazil
b) Sweden
c) Argentina
d) South Africa
121. Which statement represents the harmful effect of depletion of earth's ozone layer?
a) The average temperature of earth's surface will increase gradually
b) The oxygen content of the atmosphere will decrease
c) Increased amount of ultraviolet radiation will reach earth's surface
d) Sea levels will rise as the polar ice caps will gradually melt
122. Which of the following statement is not correct?
a) Ozone layer do not allow UV-B to reach the earth surface
b) Ozone hole is an actual hole over Antarctica
c) Halons are ozone depleting substances
d) The active chlorine destroys ozone and convert it into O₂
123. Euro II norms were stipulated to control sulphur content at 350 ppm in ...A... and 150 ppm in ...B.... and aromatic hydrocarbons are to be contained at ...C...

- I. Eutrophication is the natural ageing of a water body by nutrient enrichment
 II. The accelerated ageing of lakes due to sewage and agricultural and industrial wastes is called cultural or accelerated eutrophication
 III. The plant nutrients responsible for eutrophication are nitrates and phosphates
 IV. Phosphates and nitrates accelerate the growth of algae which utilise oxygen and may deoxygenate the water enough to kill the fish and other aquatic animals

Which of the statements given above are correct?

- a) I and II b) I, II and III c) I, III and IV d) I, II, III and IV
137. A sewage treatment process in which a part of decomposer bacteria present in the waste is recycled into the starting of the process is called
 a) Cyclic treatment b) Activated sludge treatment
 c) Primary treatment d) Tertiary treatment
138. Cigarette smoking causes
 a) Skin cancer b) Blood cancer c) Bone cancer d) Lung cancer
139. Ozone saves the biosphere by absorbing the high energy radiation called
 a) Infra-red rays (IR) b) Ultraviolet rays (UV)
 c) X-rays d) Gamma rays
140. The fertile top soil is removed by human activities like
 a) Over-cultivation b) Unrestricted grazing
 c) Deforestation and poor irrigation practices d) All of the above
141. Which of the following statement is correct?
 a) Extensive use of chemical fertilizers may lead to eutrophication of nearby water bodies
 b) Both *Azotobacter* and *Rhizobium* fix atmospheric nitrogen in root nodules of plants
 c) Cyanobacteria such as *Anabaena* and *Nostoc* are important mobilizers of phosphates and potassium for plant nutrition in soil
 d) At present, it is not possible to grow maize without chemical fertilizers
142. Algal blooms imparts a distinct colour to water due to
 a) Their pigments
 b) Excretion of coloured substance
 c) Absorption of light by algal cell wall
 d) Formation of coloured chemicals in water facilitated by physiological degradation of algae
143. Pollution is not caused by
 a) Thermal power plant b) Automobile
 c) Radioactive power plant d) Hydroelectric power plant
144. The term 'biomagnification' refers to the
 a) Growth of organisms due to food consumption
 b) Increase in population size
 c) Blowing up of environmental issues by man
 d) Increasing in the concentration of non-degradable pollutants as they pass through food chain
145. Carbon dioxide is called green house gas because it is
 a) Used in green house to increase plant growth b) Transparent to heat but traps sunlight
 c) Transparent to sunlight but traps heat d) Transparent to both sunlight and heat
146. One of the following acts as secondary pollutant
 a) Br₂ b) Cl₂ c) NO₂ d) HNO₃
147. Which of the following toxic materials was present in Minamata bay of Japan?
 a) Cd b) Pb c) Mg d) Hg
148. Global agreement in specific control strategies to reduce the release of ozone depleting substances, was adopted by
 a) Rio de Janerio Conference b) Montreal Protocol

- c) Kyoto Protocol
d) Vienna Convention
149. Ecological sanitation is a sustainable system for handling human excreta, using dry composting toilets. Such 'Ecosave' toilets are working in
a) Asom and West Bengal
b) Andhra Pradesh and Maharashtra
c) Kerala and Sri Lanka
d) Karnataka and Andhra Pradesh
150. Common indicator organism of water pollution is
a) *Lemna pancicostata*
b) *Eichhornia crassipes*
c) *Escherichia coli*
d) *Entamoeba histolytica*
151. Kyoto protocol has specified the commitments of different countries
a) To mitigate climate changes
b) Limit production of chlorofluorocarbons
c) To prepare a world climate programme
d) None of the above
152. Which of the following groups of gases cause photochemical smog?
a) O₃, PAN and CO
b) HC, NO and PAN
c) O₂, PAN and NO₂
d) O₂, PAN and NO₃
153. The phenomenon by which certain pollutants (*e. g.*, DDT, Mercury) accumulates in the body tissues in increasing concentration is called
a) Biological degradation
b) Biological magnification
c) Eutrophication
d) Bioprecipitation
154. Read the following statements carefully and select the correct ones
I. UV rays essential for the production as well as degradation of ozone gas
II. Ozone present in ionosphere acts as a shield absorbing UV radiation coming from the sun
III. One fourth of the incoming solar radiation is reflected by the atmospheric gases and clouds and only half of the incoming solar radiation falls on the earth's surface, heating it. Of this only a small portion is reflected back
a) I and II
b) I and III
c) II and III
d) I, II and III
155. In India, the heaviest demand of forests is for
a) Fuel wood
b) Timber wood
c) Wood for agricultural tools
d) Medicines
156. The ultraviolet radiations in the stratosphere are absorbed by
a) O₃
b) O₂
c) CO₂
d) H₂SO₄
157. Carbon monoxide is a pollutant because it
a) Reacts with O₂
b) Inhibits glycolysis
c) Reacts with haemoglobin
d) Makes nervous system inactive
158. It is estimated that out of the total global warming, the relative contribution of CO₂, CH₄, CFCs and N₂O are found respectively as
a) 60%, 20%, 14% and 6%
b) 6%, 14%, 20% and 60%
c) 20%, 60%, 14% and 6%
d) 20%, 14%, 60% and 6%
159. In big cities, the major atmospheric pollutant is
a) Carbon monoxide and oxide of sulphur
b) Hydrocarbon and hot air
c) Pollens and Marsh gas
d) Ozone
160. Steps taken by the Government of India to control air pollution include
a) Compulsory mixing of 20% ethyl alcohol with petrol and 20% biodiesel with diesel
b) Compulsory PUC (Pollution Under Control) certification of petrol driven vehicles, which tests for carbon monoxide and hydrocarbons
c) Permission to use only pure diesel with a maximum of 500 ppm sulphur as fuel for vehicles
d) Use of non-polluting Compressed Natural Gas (CNG) only as fuel by all buses and trucks

161. Which of the following plants is used for the purification of water?
 a) *Beggiatoa* b) *Chlorella* c) *Spirogyra* d) *Eichhornia*
162. Which of the following is non-biodegradable?
 a) Sewage b) DDT c) Livestock waste d) Market garbage
163. Minamata disease was caused due to the consumption of
 a) Sea food containing lot of cadmium b) Fish contaminated with mercury
 c) Oysters with lot of pesticide d) Sea food contaminated with selenium
164. Which one among the following is likely to have the highest level of DDT deposition in its body?
 a) Phytoplanktons b) Sea gull c) Crab d) Eel fish
165. *Escherichia coli* is used as an indicator organism to determine pollution of water with
 a) Industrial effluents b) Pollen of aquatic plants
 c) Heavy metals d) Faecal matter
166. 'Bad' ozone is formed in
 a) Atmosphere b) Ionosphere c) Stratosphere d) Troposphere
167. Which Act was formulated in the year 1986?
 a) The Insecticide Act
 b) The Water (prevention and control of pollution) Act
 c) The Air (prevention and control of pollution) Act
 d) The Environment (protection) Act
168. The thickness of ozone in a column of air from the ground to the top of the atmosphere is measured in terms of
 a) Decibel units b) Pascal units c) Svedberg units d) Dobson units
169. The Montreal protocol refers to
 a) Persistent organic pollutants b) Global warming and climate change
 c) Substances that deplete the ozone layer d) Biosafety of genetically modified organisms
170. Green-house effect refers to
 a) Cooling of earth b) Trapping of UV rays c) Production of cereals d) Warming of earth
171. I. Radiation from nuclear waste is ...A... at a very high rate
 II. At low doses, radiations causes ...B...
 Complete the given statement by choosing appropriate option for A and B
 a) A-lethal; B-cancer b) A-cancer; B-mutation
 c) A-mutation; B-down syndrome d) A-down syndrome; B-cancer
172. A pollutant can best defined as it
 a) Has natural geochemical cycles b) Changes homeostasis of environment
 c) Disturb natural flora of a place d) Become stabilized in ecosystem forever
173. Global warming can be controlled by
 I. reducing deforestation
 II. planting trees (afforestation)
 III. slowing down the growth of human population
 IV. reduction of emission of greenhouse gases into the atmosphere
 V. cutting down the use of fossil fuels
 Which of the statement given above are correct?
 a) I, II, III and IV b) II, III, IV and V c) I, III, V and IV d) I, II, IV and V
174. What is true about the Euro II norms?
 a) It stipulates to control sulphur at 350 ppm in diesel and 150 ppm in petrol
 b) It stipulates to reduce sulphur level to 50 ppm in petrol and diesel
 c) It stipulates to reduce sulphur level to 200 ppm in diesel and petrol
 d) It stipulates to reduce sulphur level to 200 ppm in diesel and 100 ppm in petrol
175. Montreal protocol, which calls for appropriate action to protect the ozone layer from human activities was

passed in the year

- a) 1986 b) 1987 c) 1988 d) 1985

176. Consider the following statements about scrubber

- I. It is used to remove gases like sulphur dioxide from industrial exhaust
 II. In a scrubber, the exhaust is passed through a spray of water or lime
 III. Water dissolves gases and lime reacts with sulphur dioxide to form a precipitate of calcium sulphate and sulphide

Which of the statements given above are correct?

- a) I and II b) I and III c) II and III d) I, II and III

177. Excess atmospheric CO₂ increase green house effect as CO₂

- a) Precipitates dust in the atmosphere b) Reduces atmospheric pressure
 c) Is opaque to infra red rays d) Is not opaque to infra red rays

178. Removal of forest areas to fulfil the needs of growing human population is called

- a) Deforestation b) Reforestation c) Depletion of forest d) Afforestation

179. Which of the following is a secondary air pollution?

- a) Hydrocarbons b) Smog
 c) Particulate matter d) Automobile exhausts

180. Maximum green house gases are released by

- a) India b) Britain c) USA d) France

181. Good ozone is formed in

- a) Atmosphere b) Ionosphere c) Stratosphere d) Troposphere

182. Ozone layer is depleted by

- a) SO₂, NO₃ b) CFCs, CH₄, N₂O c) CO, CH₄, O₂ d) NO₂, CO₂

183. Catalytic converters, which are fitted into automobiles for reducing the emission of poisonous gases possesses which of the following metals used as catalyst?

- a) Platinum b) Palladium c) Rhodium d) All of these

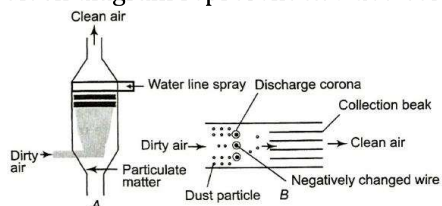
184. El Nino effect is closely associated with

- a) Global warming b) Acid rain c) Greenhouse gases d) All of these

185. Formation of non-functional methaemoglobin causes blue-baby syndrome. This is due to

- a) Excess of arsenic concentration in drinking water
 b) Excess of nitrates in drinking water
 c) Deficiency of iron in food
 d) Increased methane content in the atmosphere

186. Given diagram represent two devices A and B used to control air pollution. Identify them



- a) A-Bag filter; B-Scrubber b) A-Scrubber; B-Electrostatic precipitator
 c) A-Scrubber; B-Bag filter d) A-Electrostatic precipitator; B-Bag filter

187. One of the main reasons of soil erosion in India is

- a) Jhum cultivation b) Deforestation c) Drought conditions d) Temperature

188. Maximum noise permissible during day time in residential areas is

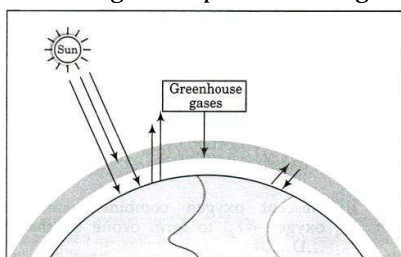
- a) 75 dB b) 55 dB c) 65 dB d) 45 dB

189. BOD increased by

- a) Algae b) Moss c) Ferns d) Distillated wastes

190. When the noise was recognized as an air pollutant?

205. Which of the following is not an air pollutant?
 a) NO_3 b) SO_2 c) Hydrocarbons d) CO_2
206. Montreal protocol aims at
 a) Reduction of ozone depleting substances b) Biodiversity conservation
 c) Control of water pollution d) Control of CO_2 emission
207. Sulphur dioxide causes
 a) Asthma b) Bronchitis c) Emphysema d) All of these
208. Forests in India, according to Central Forestry Commission (1980) are about
 a) 19.4% b) 18.3% c) 30% d) 14.0%
209. Which of the following are advantages of ecological sanitation?
 I. It is a practical, hygienic and efficient method of waste disposal
 II. It is cost effective
 III. Human excreta can be recycled into natural fertilisers, to replace chemical fertilisers
 a) I and II b) I and III c) II and III d) I, II and III
210. Which element is caused of itai-itai disease?
 a) Hg b) Pb c) Cd d) As
211. Organic farming is the technique of raising crops through the use of
 a) Manure b) Biofertilisers c) Resistant varieties d) All of these
212. Given diagram represents the greenhouse effect



- I. Greenhouse gases absorb infrared radiation from the earth. The absorbed radiations again come to earth's surface and heat it up
 II. CO_2 , CH_4 , CFCs and N_2O are the gases which are responsible for greenhouse effect
 III. Increase in the level of greenhouse gases results considerable heating of earth leading to global warming

Which of the statement given above are correct?

- a) I and II b) II and III c) I and III d) I, II and III
213. Loss of forest, urbanization, increasing pollution are all due to
 a) Global warming b) Green house effect
 c) Population explosion d) Ozone depletion
214. Motor vehicles equipped with catalytic converter should use unleaded petrol because lead
 a) In petrol inactivates the catalyst b) Increases the burning of petrol
 c) Decreases the efficiency of vehicles d) Is a heavy metal
215. The accelerated ageing of lakes due to sewage and agricultural and industrial waste is called
 a) Nutrient enrichment b) Accelerated eutrophication
 c) Biomagnification d) None of the above
216. Which of the following is biodegradable pollutant?
 a) Sewage b) Plastic c) Polythene d) DDT
217. Eutrophication results in reduction of
 a) Mineral salts b) Dissolved oxygen c) Parasitic Protozoa d) Dissolved nitrate
218. Which one of the following gases can deplete ozone layer in the upper atmosphere?
 a) Ammonia b) Methane c) Carbon monoxide d) Sulphur dioxide
219. Arrange the following options in ascending order of their BOD value.

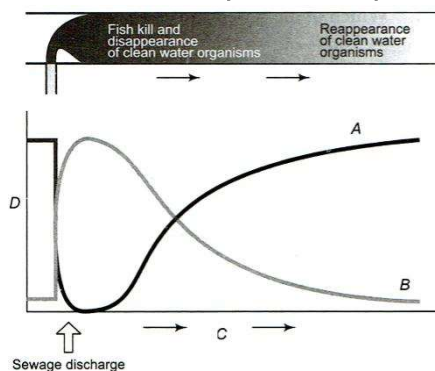
Which of the statements given above are correct?

- a) I and II b) I and III c) II and III d) I, II and III
231. Gaseous pollutants can be controlled by
 a) Arrestors b) Electrostatic precipitators
 c) Pyrolysis d) Incineration
232. CFCs are not recommended to be used in refrigerators because they
 a) Increase temperature b) Deplete ozone
 c) Affect environment d) Affect human body
233. Green house effect with respect to global climate refers to
 a) Cooling and moist condition b) Warming effect
 c) Increase rainfall and greenery d) Desertification
234. Foul smell in the water bodies of tanks, ponds ,etc, is due to
 a) Aerobiosis b) Anaerobiosis
 c) Psammophytes d) Biological magnification
235. Green house effect is due to the increased concentration of
 a) CO₂ b) Ne c) SO₂ d) NO₂
236. 5th June is celebrated as
 a) World forest day b) World environment day
 c) World red cross day d) World food day
237. Effect of pollution is on
 a) Crossing over b) Ecological balance c) Linkage d) Mutation
238. Photochemical smog pollution does not contain
 a) Ozone b) Nitrogen dioxide c) Carbon dioxide d) PAN
239. Minamata disease is caused due to presence of in water.
 a) Cadmium b) Lead c) Arsenic d) Mercury
240. SO₂ and NO₂ produce pollution by increasing
 a) Acidity b) Alkalinity c) Neutrality d) Buffer action
241. Which one of the chemical is responsible for the reduction of ozone content of the atmosphere?
 a) SO₂ b) Chlorofluorocarbon
 c) HCl d) Photochemical smog
242. Which of the following are the harmful effect of global warming?
 I. The temperature of the earth has increased by 0.6°C in last three decades, which will lead to change in precipitation patterns
 II. This rise in temperature will lead to the increased melting of polar ice caps which will cause the rise in sea level and many coastal areas will be submerged
 III. Increased temperature will lead to increased weed growth, eruption of diseases and pests. Thus, crop productivity will decrease
 a) I and II b) I and III c) II and III d) I, II and III
243. Which method is used for the removal of sulphur dioxide and ammonia from the polluted air?
 a) Electrostatic precipitator b) Wet scrubbers
 c) Gravitational method d) Absorption
244. Biochemical Oxygen Demand (BOD) is a measure of
 a) industrial wastes poured into water bodies
 b) Extent to which water is polluted with organic compound
 c) amount of carbon monoxide inseparably combined with haemoglobin
 d) amount of oxygen needed by green plants during night
245. Which one of the following is the heavy toxic metal present in waste water from industries?
 a) Mercury b) Cadmium c) Lead d) All of these
246. Consider the following statements

- I. Algal blooms are formed by free floating algae
 II. Algal bloom causes fish mortality and deterioration of water quality
 III. Water hyacinth, the world's most problematic aquatic weed is also called 'Terror of Bengal'
 Which of the statements given above are correct about algal blooms?
 a) I and II b) I and III c) II and III d) I, II and III
247. Consider the following statements about Ramesh Chandra Dagar's work in the field of organic farming
 I. Ramesh Chandra Dagar's work includes bee-keeping, dairy management, water harvesting, composting and agriculture in a chain of processes
 II. In this process there is no need to use chemical fertilisers for crops as cattle excreta is used as manure
 III. Crop waste is used for making compost which is used as natural fertilizer
 IV. Compost generates natural gas which is used for energy needs of farm
 Which of the statements given above are correct?
 a) I, II and III b) I, III and IV c) II, III and IV d) I, II, III and IV
248. All automobiles and fuel (petrol and diesel) were to have met the Euro III emission specification in eleven Indian cities from 1 April 2005 and have to meet the Euro IV norms by
 a) 1 April 2007 b) 1 April 2008 c) 1 April 2009 d) 1 April 2010
249. In the 1990s, Delhi ranked among the 41 most polluted cities in the world
 a) 4th b) 5th c) 6th d) 7th
250. The term 'Terror of Bengal' is used for
 a) *Eichhornia crassipes* b) Decreased biological oxygen demand
 c) Biomagnification d) Algal bloom
251. Which one is incorrect for the effects of deforestation?
 a) It leads to soil erosion
 b) It alters the weather pattern by decreasing rainfall
 c) It speeds up nutrient recycling
 d) It destroys natural habitats of wildlife
252. Amrita Devi Bishnoi wildlife protection award is for the individuals or communities from rural areas that have extraordinary courage in
 a) Reducing greenhouse effect b) Reducing air pollution
 c) Reducing global warming d) Protecting wildlife
253. Which of the following compounds are well known for biological magnification?
 a) DDT b) Mercury c) Both (a) and (b) d) Methane
254. Catalytic converter in vehicle is used for controlling
 a) Air pollution b) Water pollution c) Radioactive pollution d) Soil pollution
255. Which of the following statement is correct about DDT?
 a) It is a biomagnifying biodegradable pollutant
 b) It is non-biomagnifying biodegradable pollutant
 c) It is biomagnifying non-biodegradable pollutant
 d) It is not a pollutant
256. NEERI is situated in
 a) Delhi b) Mumbai c) Nagpur d) Bangaluru
257. E-waste are buried in ...A... or ...B... . Complete the given statement by choosing appropriate option for A and B
 a) A-land fills; B-incinerated b) A-open area; B-recycle
 c) A-dumping zone; B-recycle d) A-open area; B-incinerated
258. SO₂ pollution affects
 a) Chloroplast b) Nucleus c) Mitochondria d) Cell membrane
259. Choose the correct statement regarding the catalytic converters
 a) Motor vehicles equipped with catalytic converter should use leaded petrol

- b) Catalytic converters have expensive metals namely platinum-palladium and rhodium as catalyst
 c) Catalytic converters help in reducing particulate matter
 d) As the exhaust passes through the catalytic converter nitrogen gas is converted to nitric oxide
260. Desertification
 I. conversion of former moist and fertile land into arid desert area
 II. is a product of soil erosion
 III. desertified area cannot be put to any use
 Which of the statements given above are correct?
 a) I and II b) I and III c) II and III d) I, II and III
261. In a coal fired power plant, electrostatic precipitators are installed to control emission of
 a) SO₂ b) NO_x c) SPM d) CO
262. One of the human disease due to biomagnifications of heavy metals is
 a) Minamata b) Asthma c) Tuberculosis d) Elephantiasis
263. If a pond food chain gets polluted by DDT, the tissue concentration of DDT would be highest in
 a) Aquatic weed b) Herbivorous fish c) Carnivorous fish d) Bird feeding on fish
264. Which of the following practices has caused maximum damage to the biodiversity of Indian forests?
 a) Selective harvesting b) Block cutting c) Taungya cultivation d) Jhoom cultivation
265. Which of the following problem is created by a brief exposure to extremely high sound level, 150 dB or more generated by take off of a jet plane or rocket?
 a) Deafness b) Damage eardrums c) Both (a) and (b) d) Damage of brain
266. The amount of biodegradable organic matter in sewage water can be estimated by measuring
 a) Biological oxygen demand
 b) Biochemical oxygen demand
 c) The growth of microorganisms in water
 d) The growth of bacteria in water
267. Deforestation brings about
 a) Increased sunlight b) Increased grazing area
 c) Weed control d) Soil erosion
268. Nitrogen oxides produced from the emission of automobiles and power plants are the source of fine air borne particles which lead to
 a) Photochemical smog b) Dry acid deposition c) Industrial smog d) Wet acid deposition
269. Acid rains are produced by excess
 a) Release of carbon monoxide by incomplete combustion
 b) Formation of CO₂ by combustion and animal respiration
 c) Production of NH₃ by industry and coal gas
 d) NO₂ and SO₂ from burning fossil fuels
270. In almost all Indian metropolitan cities like Delhi, the major atmospheric pollutant (s) is /are
 a) Suspended particulate matter (SPM) b) Oxides of sulphur
 c) Carbon dioxide and carbon monoxide d) Oxides of nitrogen
271. Increasing skin cancer and damaged DNA in living organisms results due to
 a) Ozone depletion b) Acid rain c) Greenhouse effect d) Global warming
272. What steps should be taken before the disposal of nuclear waste?
 a) Nuclear waste should be pretreated b) It should be stored in shielded containers
 c) It should be buried about 500 m deep with in rockd) All of the above
273. Polyblend is a
 a) Mixture of two different type of plastics b) Mixture of two same type of plastics
 c) Fine powder of recycled modified plastic d) Blend of plastic and bitumen
274. Which of the following is absent in polluted water?
 a) *Hydrilla* b) Water hyacinth c) Larva of stone fly d) Blue-green algae

275. Given below is a flow chart showing the effect of sewage discharge on some important characteristics of a river. Read carefully and identify A, B, C and D



- a) A-BOD, B-Dissolved oxygen, C-Concentration, D-Direction of flow
- b) A-Dissolved oxygen, B-BOD, C-Direction of flow, D-Concentration
- c) A-Dissolved oxygen, B-BOD, C-Concentration, D-Direction of flow
- d) A-BOD, B-Dissolved oxygen, C-Direction of flow, D-Concentration

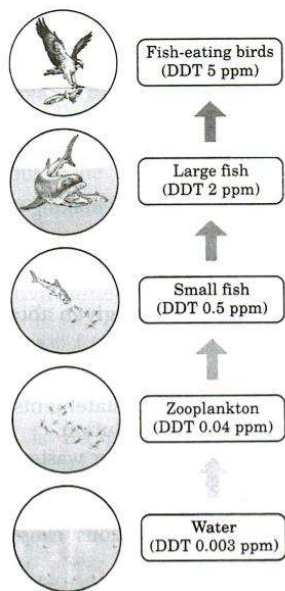
276. The post Bhopal gas disaster analysis showed that the accident started, when the leakage of a tank started containing

- a) Methyl isocyanide b) Methyl isocyanate c) Ethyl isocyanide d) Ethyl isocyanate

277. Undesirable changes in soil profile, affecting its productivity is called

- a) Soil erosion b) Soil conservation c) Soil pollution d) Soil degradation

278. The diagram below show the biomagnification of DDT in an aquatic food chain. Choose the correct statement regarding this



- I. Biomagnification refers to increase in concentration of the toxicant at successive trophic levels
 - II. High concentrations of DDT disturb calcium metabolism in birds, which causes thinning of eggshell and their premature breaking
 - III. River water may have a very low concentration of DDT, but the carnivorous fish in that river may contain high concentration of DDT, which is still suitable for consumption by human beings
- Which of the statements given above are correct?

- a) I and II b) I and III c) II and III d) I, II and III

279. Which of the following problem is not created by noise pollution?

- a) Silicosis b) Hypertension c) Sleeplessness d) Deafness

280. If global warming continues, the organism which may face more severe threat is

- a) Cow b) Dogs c) Snow leopard d) Dolphin
281. Domestic sewage contains
a) Suspended solid b) Colloidal material c) Dissolved material d) All of these
282. UV-rays are non-ionizing type and are lethal due to inactivation of
a) Proteins b) Pigments c) Nucleic acid d) All of these
283. Which form of UV-radiation is allowed to pass through ozone and reach the earth surface?
a) UV-A b) UV-B c) UV-C d) None of these
284. Measuring Biological Oxygen Demand (BOD) is a method used for
a) Measuring the activity of *Saccharomyces cerevisiae* in producing curd on a commercial scale
b) Working out the efficiency of RBCs about their capacity to carry oxygen
c) Estimating the amount of organic matter in sewage water
d) Working out the efficiency of oil driven automobile engines
285. Which of the following are true?
I. Benzene hexachloride 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
286. Which of the following gases are the contributor to the greenhouse effect?
I. Carbon dioxide
II. Methane gas
III. Nitrous oxide
IV. Chlorofluorocarbon
a) I, II and III b) II, III and IV c) I, III and IV d) I, II, III and IV
287. Deforestation refers to
a) Planting of trees b) Cultivation of crops
c) Disappearance of forests d) Increasing plant population
288. CO₂, CH₄, N₂O and CFCs are called green house gases because they absorb and emit
a) UV-rays b) Heat rays c) X-rays d) Gamma rays
289. Which of the following are the main causes of air pollution?
I. Smoke from forest fires, volcanic eruptions
II. Decomposition of garbage resulting in the release of unwanted gases into the atmosphere
III. Burning of fossil fuels in automobiles and industries releases particulate and air pollutants
IV. Use of leaded petrol
V. Particulate byproducts of various industries
Which of the statements given above are correct?
a) I, II and III b) II, III and IV c) II, III, IV and V d) All of these
290. Which are the primary constituent of photochemical smog?
a) CO₂ and NO₂ b) Hydrocarbons and CFCs
c) SO₂ and CO d) NO₂ and hydrocarbons
291. It is used in refrigerator and air conditioners and it is a source of Cl-
a) Benzopyrene b) Freon c) Benzene d) CH₄
292. Which of the following is a major source of radioactive pollution?
a) Leakage of radioactive materials from power plants
b) Unsafe disposal radioactive wastes
c) Both (a) and (b)
d) Solid waste disposal sites
293. Slash and burn agriculture is called
a) Ley farming b) Commercial agriculture

- b) The Air (Prevention and Control of Pollution) Act
 c) The Noise (Prevention and Control of Pollution) Act
 d) The Environment (Protection) Act
307. Carbon monoxide causes
 I. giddiness
 II. headache
 III. decreased vision
 IV. Cardiovascular malfunction
 V. asphyxia
 Which of the statements given above are correct?
 a) I, II and III b) II, III, IV and V c) I, III, IV and V d) I, II, III, IV and V
308. Clearing of waste water in Arcata Marsh involves
 a) Only conventional method of sewage treatment
 b) Removal of dissolved heavy metals through biological process
 c) Filtration, chlorination like chemical processes
 d) Enhance the need for chemical fertilisers
309. Which of the following is secondary pollutant?
 a) NO b) NO₂ c) SO₂ d) PAN
310. When and where the ozone hole was discovered?
 a) 1984, Antarctica b) 1985, Antarctica c) 1986, Arctic d) 1987, Arctic
311. In the phosphorus cycle, weathering makes phosphate available first to
 a) Decomposers b) Consumers c) Producers d) All of these
312. Terracing is done in
 a) Desert areas b) Hilly areas c) Dry areas d) Plain areas
313. High amount of *Escherichia coli* in water indicates
 a) Hardness of water b) Industrial pollution
 c) Sewage pollution d) Pollution due to electromagnetic radiation
314. Which one of the following pairs of gases are the major cause of 'Green house effect'?
 a) CO₂ and CO b) CFCs and SO₂ c) CO₂ and N₂O d) CO₂ and O₃
315. In plants, air pollution causes
 a) Reduced growth and yield b) Leads to premature death
 c) Both (a) and (b) d) Wilting
316. Recent reports of acid rains in big industrial cities are due to the effect of atmospheric pollution by
 a) More release of NO₂ and SO₂ by burning of fossil fuels
 b) More release of CO₂ by burning of coal /wood cutting of forests and increasing populations
 c) Excessive release of NH₃ by coal gas / industries
 d) Excessive release of CO by incomplete combustion of carbonaceous fuels
317. Major cause of air pollution in big cities is
 a) Domestic exhaust b) Burning of cooking gas
 c) Thermal power plant d) Automobile exhaust
318. Which one of the following statement is wrong in case Bhopal gas tragedy?
 a) Thousands of human being died
 b) Radioactive fall out engulfed Bhopal
 c) It took place in the night of December 2/3, 1984
 d) Methyl isocyanate gas leakage took place
319. Why ozone is known as 'chemical weed'?
 a) Because it is formed by chemical reactions
 b) Because it is harmful as well useful
 c) Because it is harmful, just like weeds for mankind

- d) Ozone is not designated as chemical weed
320. Consider the following statements
 I. Noise causes psychological disorder in humans
 II. Noise causes physiological disorder in humans
 III. Noise measurable unit is dB but some times it is measured in Dobson unit
 IV. 150 dB is tolerate for human
 Which of the above statements are true?
 a) I and IV b) I and II c) I, II and IV d) I and III
321. Which of the following gases does not cause acid rain?
 a) Sulphur dioxide b) Methane c) Nitrous oxide d) Carbon monoxide
322. Electrostatic Precipitator (ESP)
 I. Is an electrical device to remove particulate matter present in the exhaust of thermal power plant
 II. More than 99% particulate matter can be removed by this method
 III. ESP has electrode wires and a stage of collecting plates
 Which of the statements given above are correct?
 a) I and II b) I and III c) II and III d) I, II and III
323. The pollutants which are already present in nature, but are released in substantial amounts by man are known as
 a) Qualitative pollutants b) Degradable pollutants
 c) Primary pollutants d) Quantitative pollutants
324. One of the chief causative factor of desertification is
 a) Overgrazing b) Human developmental activities
 c) Irrigated agriculture d) Population
325. Which method is used to control pollutants of particulate nature?
 a) Solvent recovery system b) Thermal oxidisers
 c) Electrostatic precipitator d) Scrubber
326. The national forest policy of India has recommended ...A... % forest cover for the plains and ...B... % for the hills
 a) A-33; B-67 b) A-35; B-66 c) A-35; B-65 d) A-33; B-64
327. SO₂ pollution is indicated by
 a) *Desmodium* (grasses)
 b) *Sphagnum* (mosses)
 c) *Usnea* (lichens)
 d) *Cucurbita* (climbers)
328. Hydrogen sulphide causes
 a) Nausea b) Eye irritation c) Throat irritation d) All of these
329. Which of the following statements regarding decomposition is false?
 a) Warm and moist environment favours decomposition
 b) Decomposition rate is slower if detritus is rich in chitin and lignin.
 c) Earthworm is a detritivore
 d) Precipitation of soluble inorganic nutrients into the soil horizon as unavailable salts is called mineralisation
330. Ozone layer is being destroyed by
 a) SO₂ b) NO₂ c) CFCs d) Photochemical smog
331. Consider the following statement about polyblend
 I. In 1998, Ahmed Khan developed polyblend, a fine powder of recycled modified plastic
 II. Polyblend has been mixed with bitumen to lay roads in Bengaluru
 III. Polyblend enhances bitumen's water repellent properties and helps to increase the life of road
 Which of the statements given above are correct?

- a) I and II b) I and III c) II and III d) I, II and III
332. Chipko movement
 I. It is movement initially meant for protecting trees but now meant for preservation of environment including habitat and wildlife
 II. Chipko movement was started in Garhwal, Himalayas in 1973 Shri Sundar Lal Bahuguna to prevent cutting down of trees
 III. Local women hugged trees to prevent their cutting by the contractor
 Which of the statements given above are correct?
 a) I and II b) I and III c) II and III d) I, II and III
333. Biochemical Oxygen Demand (BOD) in a river water
 a) Remains unchanged when algal bloom occurs
 b) Has no relationship with concentration of oxygen in the water
 c) Gives a measure of *Salmonella* in the water
 d) Increase when sewage gets mixed with river water
334. Noise pollution is measured in
 a) Decibels b) Amperes c) Fathoms d) Ohm
335. Due to attack of fumes of sulphur dioxide and sulphuric acid, the marble of Taj Mahal and Red stone of Red fort changed into calcium sulphate which causes
 a) Stone leprosy b) Stone mosaic c) Corrosion d) None of these
336. Which of the following is not a device used to control a particulate matter?
 a) Arresters b) Scrubbers
 c) Filters d) Incinerator
337. What was the aim of Chipko movement?
 a) Human rights b) Political rights
 c) Agricultural expansion d) Forest (plant)conservation
338. Which one of the following is a wrong statement?
 a) Greenhouse effect is a natural phenomenon
 b) Eutrophication is a natural phenomenon in freshwater bodies
 c) Most of the forests have been lost in tropical areas
 d) Ozone in upper part of atmosphere is harmful to animals
339. According to central Pollution Control Board (CPCB), which particulate size in diameter (in micrometres) 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 or 2.5
340. Lichens are described as indicator of
 a) Air pollution
 b) Water pollution
 c) Soil pollution
 d) Agriculture productivity
341. The two gases making highest relative contribution to the green house gases are
 a) CO₂ and CH₄ b) CH₄ and N₂O c) CFCs and N₂O d) CO₂ and N₂O
342. Which of the chemical reaction is not correct?
 a) $\text{CFCl}_3 \xrightarrow{\text{UV-C}} \text{CFCl}_2 + \text{Cl}$ b) $\text{CF}_2\text{Cl}_2 \xrightarrow{\text{UV-C}} \text{CF}_2\text{Cl} + \text{Cl}$
 c) $\text{NO} + \text{O}_3 \xrightarrow{h\nu} \text{NO}_3 + \text{O}$ d) $\text{NO}_2 + \text{O}_3 \xrightarrow{h\nu} \text{NO}_3 + \text{O}_2$
343. Term used for accumulation of non-degradable pollutant in higher trophic level is
 a) Biomagnification b) Eutrophication c) Biome d) Ecotone
344. Domestic sewage mainly contains ...A... wastes which are readily decomposed with the help of ...B... Here A and B refers to
 a) A-inorganic; B-bacteria b) A-biodegradable; B-decomposers

