

**SECTION C: PREVIOUS YEARS' EXAMINATION QUESTIONS**

1. Montreal protocol which calls for appropriate action to protect to ozone layer from human activities was passed in year **(2006)**  
(A)1989 (B)1986  
(C)1987 (D)1988
2. Blue-baby syndrome results from **(2006)**  
(A)Excess of TDX  
(B)Excess of chlorides  
(C)Excess of dissolved oxygen  
(D)Methaemoglobin
3. UV radiation from sunlight produces **(2007)**  
(A)Ozone (B)SO<sub>2</sub>  
(C)CO (D)Flourides
4. Carbon monoxide, emitted by automobiles, prevents transport of oxygen in body due to **(2007)**  
(A)Combining with oxygen to form carbon dioxide  
(B)Destruction of haemoglobin  
(C)Preventing reaction between oxygen and haemoglobin  
(D)Forming stable compound with haemoglobin
5. In coal fired power plants, electrostatic precipitators are fitted to control emission of **(2007)**  
(A)NO<sub>x</sub> (B)CO  
(C)SPM (D)SO<sub>2</sub>
6. Which is correct? **(2007)**  
(A)Both *Azotobacter* and *Rhizobium* fix atmospheric nitrogen in root nodules of plants.  
(B)Cyanbacteria, *Anabaena* and *Nostoc* are mobilizers of phosphates and plant nutrition in soil.  
(C)At present it is to possible to grow Maize without chemical fertilizers.  
(D)Excessive use of chemical fertilizers may lead to eutrophication of nearby water bodies.
7. Which is not a bio indicator of water pollution? **(2007)**  
(A)Blood worms (B)Stone flies  
(C)Sewage fungus (D)Sludge worms
8. Correct percentage of two greenhouse gases is **(2008)**  
(A)N<sub>2</sub>O—6%, CO<sub>2</sub>—86%  
(B) CH<sub>4</sub>—20%, N<sub>2</sub>O—18%

- (C) CO<sub>2</sub>—40%, CFC—30%
- (D) CFC—14%, CH<sub>4</sub>—20%
9. BOD is measure of (2008)
- (A) Industrial waste being poured in water body
- (B) Extent of pollution with organic compound
- (C) CO combined with haemoglobin
- (D) O<sub>2</sub> required by green plants during night
10. In Indian metropolitan cities like Delhi major air pollutant is (2008)
- (A) SPM (B) SO<sub>x</sub>
- (C) NO<sub>x</sub> (D) CO and CO<sub>2</sub>
11. Photochemical smog consists of (2008)
- (A) O<sub>3</sub>, SO<sub>x</sub> and hydrocarbons
- (B) O<sub>3</sub>, PAN and NO<sub>x</sub>
- (C) SO<sub>2</sub>, CO<sub>3</sub> and hydrocarbons
- (D) SO<sub>3</sub>, PAN and smoke
12. Formation of nonfunctional methaemoglobin causes blue-baby syndrome. This is due to (2008)
- (A) Excess of arsenic in drinking water
- (B) Excess of nitrate in drinking water
- (C) Deficiency of iron in food
- (D) Increased methane content in atmosphere
13. Photochemical smog does not contain (2008)
- (A) PAN (B) Ozone
- (C) Nitrogen dioxide (D) CO<sub>2</sub>
14. A lake near a village suffered heavy mortality of fish within a span of a few days. The possible reasons are (2008)
- a. Lot of urea and phosphate fertilizers were used in nearby crops
- b. The area was sprayed with DDT an air craft
- c. Lake water turned green and stinky
- d. Phytoplankton population declined reducing photosynthesis
- (A) a,b (B) a,c
- (C) b,c (D) c,d
15. According to Central Pollution Control Board, air pollutants responsible for great harm have a size (in/μm) of (2008)
- (A) 1.0 or less (B) 1.5 or less
- (C) 2.5 or less (D) 5.2-2.5

16. Montreal Protocol refers to (2009)  
(A) Substances that deplete ozone layer  
(B) Persistent organic pollutants  
(C) Global warming and climate change  
(D) Biosafety of genetically modified organisms
17. If global warming continues, organism facing severe threat is (2009)  
(A) Banana (B) Dolphin  
(C) Cow (D) Snow Leopard
18. Maximum ozone depletion is caused by (2009)  
(A) CO<sub>2</sub> (B) CFC  
(C) SO<sub>2</sub> (D) CH<sub>4</sub>
19. Environmental Protection Act was passed in (2009)  
(A) 1986 (B) 1981  
(C) 1974 (D) 1968
20. Biomagnification of DDT in aquatic food chain from 0.003 ppb in water to fish eating birds would be (2009)  
(A) 10 ppm (B) 5 ppm  
(C) 25 ppm (D) 2 ppm
21. DDT residues are rapidly passed through food chain as DDT is (2009)  
(A) Water soluble  
(B) Moderately toxic  
(C) Liposoluble  
(D) Nontoxic to aquatic animals
22. The two gases making highest relative contribution to the greenhouse gases are (2010)  
(A) CH<sub>4</sub> and N<sub>2</sub>O (B) CFCs and N<sub>2</sub>O  
(C) CO<sub>4</sub> and NO<sub>2</sub> (D) CO<sub>2</sub> and CH<sub>4</sub>
23. Renewable exhaustible natural resource of energy is (2010)  
(A) Biomass/Forest (B) Coal  
(C) Petroleum (D) Kerosene
24. A secondary pollutant is (2010)  
(A) CO (B) CO<sub>2</sub>  
(C) PAN (D) Aerosol
25. The Air (Prevention and Control of Pollution) Act was amended in 1987 to include one of the following as pollutant (2010)  
(A) Dust (B) Noise

- (C)Water (D)None of the above
26. During past 150 years the concentration of CO<sub>2</sub> has increased approximately from (2010)
- (A)200 ppm to 300 ppm (B)350 ppm to 450 ppm  
(C)280 ppm to 370 ppm (D)120 ppm to 280 ppm
27. Eutrophication is often seen in (2011)
- (A)Oceans (B)Mountains  
(C)Deserts (D)Fresh water lakes
28. Which is wrong about Bhopal tragedy? (2010)
- (A)Radioactive fallout engulfed Bhopal.  
(B)Methyl isocyanate gas leakage took place.  
(C)Thousands of human beings died.  
(D)Take place in the night of Dec 2/3, 1984.
29. In metropolitan cities air pollution is controlled by (2013)
- (A)Factories planted apart from the city  
(B)Using unleaded petrol  
(C)Phasing out of old vehicles  
(D)All of the above
30. Biomagnification is caused due to the (2013)
- (A)SO<sub>2</sub> (B)No  
(C)O<sub>3</sub> and Co (D)Pesticides and Hg
31. Kyoto protocol was endorsed at (2013)
- (A)Cop-6 (B)Cop-4  
(C)Cop-3 (D)Cop-5
32. The Air Prevention and Control of Pollution Act came into force in (2013)
- (A)1985 (B)1990  
(C)1975 (D)1981
33. The second commitment period of Kyoto Protocol was decided at (2013)
- (A)Durban (B)Bali  
(C)Doha (D)Cancun
34. Climate of the world is threatened by (2013)
- (A)Decreasing amount of atmospheric oxygen  
(B)Increasing concentration of atmospheric carbon dioxide  
(C)Increasing amount of atmospheric oxygen  
(D)Increasing concentration of atmospheric oxygen

35. Which one of the following is not correct with regard to the harmful effects of particulate matter of the size 2.5 micro meters or less? (2013)
- (A) It can cause respiratory problems.  
(B) It can directly enter into our circulatory system.  
(C) It can cause inflammation and damage to the lungs.  
(D) It can be inhaled into the lungs.
36. An international treaty on ozone depletion known as Montreal Protocol was signed at Montreal in the year (2013)
- (A) 1983 (B) 1983  
(C) 1985 (D) 1987
37. 'Knock knee' syndrome occurs due to the pollution of (2013)
- (A) Nitrates (B) Phosphates  
(C) Fluorides (D) Heavy metals
38. Temperature increase with height in which of the spheres (2013)
- (A) Troposphere (B) Stratosphere  
(C) Mesosphere (D) None of these
39. In a polluted environment, the maximum pollutant will occur in (2013)
- (A) Primary producers (B) Tertiary consumers  
(C) Secondary consumers (D) Primary consumers
40. The zone of atmosphere in which the ozone layer is present is called (2014)
- (A) Troposphere (B) Ionosphere  
(C) Mesosphere (D) Stratosphere
41. Degradation of ozone layer in stratosphere by (2014)
- (A)  $O_3$  (B)  $H_2O$   
(C)  $NH_3$  (D)  $CF_2Cl_2$
42. A scrubber in the exhaust of a chemical industrial plant removes (2014)
- (A) Particulate matter of the size 2.5 micrometer or less  
(B) Gases like sulphur dioxide  
(C) Particulate matter of the size 5 micrometer or above  
(D) Gases like ozone and methane
43. Which one is employed for clearing oil spillage (2014)
- (A) *Escherichia coli* (B) *Streptococcus*  
(C) *Bacillus thuringiensis* (D) *Pseudomonas*
44. A citizen group called Friends of the Arcata Marsh (FOAM) basically belongs to (2014)
- (A) Germany (B) USA

- (C)Canada (D)UK
45. The prime contaminants in lakes eutrophied by sewage and agricultural wastes are (2014)
- (A)Sulphates and phosphates  
(B)Nitrates and sulphates  
(C)Nitrates and phosphates  
(D)Nitrates and carbonates
46. The process of nutrient enrichment of water, and subsequent loss of species diversity is referred to as (2014)
- (A)Bioconcentration (B)Biomagnification  
(C)Eutrophication (D)Nitrification
47. The UN conference of Parties on climate change in the year 2012 was held at (2015)
- (A)Doha (B)Lima  
(C)Warsaw (D)Durban
48. Acid rain is caused by increase in atmospheric concentration of (2015)
- (A)SO<sub>3</sub> and CO (B) CO<sub>2</sub> and CO  
(C) O<sub>3</sub> and dust (D) SO<sub>3</sub> and NO<sub>2</sub>
49. Increase in concentration of the toxicant at successive trophic levels is known as (2015)
- (A)Biodeterioration (B)Biotransformation  
(C)Biogeochemical cycling (D)Biomagnification
50. Eutrophication of water bodies leading to killing of fishes is mainly due to non-availability of (2015)
- (A)Light (B)Essential minerals  
(C)Oxygen (D)Food
51. High value of BOD (Biochemical Oxygen Demand) indicates that (2015)
- (A)Water is less polluted  
(B)Consumption of organic matter in the water is higher by the microbes  
(C)Water is pure  
(D)Water is highly polluted
52. The UN Conference of Parties on climate change in the year 2011 was held in (2015)
- (A)Peru (B)Qatar  
(C)Poland (D)South Africa
53. The crops engineered for glyphosate are resistant/ tolerant to (2015)
- (A)Insects (B)Herbicides

- (C)Fungi (D)Bacteria
54. Rachel Carson's famous book "Silent Spring" is related to (2015)  
(A)Population explosion  
(B)Ecosystem management  
(C)Pesticides pollution  
(D)Noise pollution
55. Ionosphere is between (2015)  
(A)Stratosphere and mesosphere  
(B)Mesosphere and thermosphere  
(C)Troposphere and stratosphere  
(D)Troposphere and thermosphere
56. COP-18 climate change was held in (2015)  
(A)Poland (B)Indonesia  
(C)Qatar (D)South Africa
57. Ozone depletion in the stratosphere is primarily due to (2015)  
(A)Sulphur dioxide and carbon monoxide  
(B)Volcanic activity  
(C)Chlorofluorocarbons  
(D)Carbon dioxide and vehicular emissions
58. The exhaust from a thermal power plant if passed through an electrostatic precipitator removes (2015)  
(A)Sulphur dioxide  
(B)Carbon dioxide  
(C)Particulate matter upto 10 micrometers  
(D)Particulate matter which is swept away by water flowing in opposite direction
59. Acid rain is caused by (2016)  
(A)SO<sub>2</sub>, SO<sub>3</sub> (B) SO<sub>2</sub>, CO  
(C) CO, NH<sub>3</sub> (D) SO<sub>2</sub>, NH<sub>3</sub>
60. Depletion of which gas in the atmosphere can lead to an increased incidence of skin cancers (2016)  
(A)Ammonia (B)Methane  
(C)Nitrous oxide (D)Ozone
61. A system of rotating crops with legume or grass pasture to improve soil structure and fertility is called (2016)  
(A)Strip farming (B)Shifting agriculture  
(C)Ley farming (D)Contour farming

62. Joint Forest Management Concept was introduced in India during (2016)  
(A) 1980s (B) 1990s  
(C) 1960s (D) 1970s
63. A river with an inflow of domestic sewage rich in organic waste may result in (2016)  
(A) An increased production of fish due to biodegradable nutrients  
(B) Death of fish due to lack of oxygen  
(C) Drying of the river very soon due to algal bloom  
(D) Increased population of aquatic food web organisms

**SECTION D: CHAPTER-END TEST**

1. Sheet erosion is due to  
(A) Fast running rivers (B) Wind  
(C) Heavy rains (D) Occasional rains.
2. Non-ionising radiation with specific biological effects are  
(A) UV radiations (B) Beta rays  
(C) Gamma rays (D) X-rays
3. Fertility of soil is measured by its ability to  
(A) Retain nutrients  
(B) Hold organic materials  
(C) Hold water  
(D) Support life
4. Soil fertility is reduced by  
(A) Crop rotation  
(B) Nitrogen fixing bacteria  
(C) Decaying organic matter  
(D) Intensive agriculture
5. Water is a resource  
(A) Non-degradable non-maintainable  
(B) Degradable maintainable  
(C) Renewable  
(D) Non-renewable
6. Concentration of greenhouse gases is increasing due to  
(A) Deforestation  
(B) Increased use of refrigerators  
(C) Increased combustion of coal and petroleum

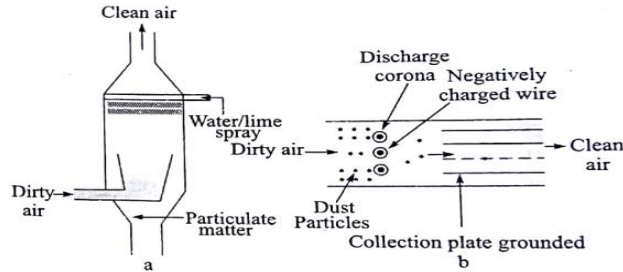


- (D) All the above
7. Petroleum is a  
(A) Synthetic product  
(B) Renewable resource  
(C) Nonrenewable resource  
(D) Inconvenient resource
8. Highest DDT deposition shall occur in  
(A) Phytoplankton  
(B) Sea Gull/Birds  
(C) Crab  
(D) Eel
9. UV radiations bring about  
(A) Skin cancer  
(B) Mouth cancer  
(C) Lung cancer  
(D) Liver cancer
10. Largest amount of fresh water is found in  
(A) Lakes and streams  
(B) Underground  
(C) Polar ice and glaciers  
(D) Rivers
11. Which one is the major reason for pollution in big cities?  
(A) Fossil fuel  
(B) Acid rain  
(C) Heat dispersion  
(D) None of the above
12. MIC and Chernobyl tragedies occurred at  
(A) Bhopal 1984, Ukraine 1990  
(B) Bhopal 1984, Ukraine 1988  
(C) Bhopal 1984, Ukraine 1986  
(D) Bhopal 1986, Ukraine 1988
13. Measurement of rate of oxygen utilization by a unit volume of water over a period of time is to measure  
(A) Fermentation  
(B) Biogas generation  
(C) Biosynthetic pathway  
(D) Biochemical oxygen demand
14. Sudden mass death of fish is more likely to occur in  
(A) Eutrophic lake  
(B) Mesotrophic lake  
(C) Oligotrophic lake  
(D) Oxalotrophic lake
15. Increased asthmatic attacks in certain seasons are related to  
(A) Inhalation of seasonal pollen  
(B) Eating of seasonal vegetables

- (C)Low temperature  
(D)Wet and dry environment
16. Zone of atmosphere near the ground is  
(A)Troposphere (B)Stratosphere  
(C)Mesosphere (D)Homosphere
17. Domestic cooking gas cylinder contains  
(A)Coal gas (B)L.P.G  
(C)Diesel oil (D)Alcohol
18. In hilly areas, erosion is minimized by  
(A)Terracing (B)Manuring  
(C)Ploughing (D)Mixed cropping
19. Ecofriendly method is  
(A)Plantation of C<sub>3</sub> plants  
(B)Plantation of sugarcane  
(C)Energy plantation  
(D)None of the above
20. A person has impaired nervous system and signs of madness due to continued intake of metal contaminated water. The metal is  
(A)Mercury (B)Calcium  
(C)Manganese (D)Lead
21. Uniform soil erosion by running water is  
(A)Gully erosion (B)Rill erosion  
(C)Riparian erosion (D)Sheet erosion
22. Biosphere is made of  
(A)Living beings and their remains  
(B)Living beings + Lithosphere + Hydrosphere + Atmosphere  
(C)Living beings + Atmosphere  
(D)Living organisms + Lithosphere + Hydrosphere
23. Which one of the following is an environment related disorder with correct main Excess of cause?  
(A)Black lung disease is found mainly in workers of stone quarries and crushes  
(B)Blue-baby disease is due to heavy use of nitrogenous fertilizers  
(C)Non-Hodgkin's lymphoma is found mainly in workers involved in manufacture of neem—based pesticides  
(D)Skin cancer occurs mainly in people exposed to benzene and methane.
24. Prolonged liberal irrigation of agricultural fields is likely to create problem of

- (A)Acidity  
(B)Alkalinity  
(C)Salinity  
(D)Metal toxicity

25. Recognise the figure and find out the correct matching.



- (A)a—Scrubber for removing particulate matter, b—Electrostatic precipitator for removing SO<sub>2</sub> pollution  
(B)a—Electrostatic precipitator for removing SO<sub>2</sub> pollution, b—Scrubber for removing particulate matter  
(C)a—Scrubber for removing SO<sub>2</sub> pollution, b—Electrostatic precipitator for removing particulate matter  
(D)a—Electrostatic precipitator for removing particulate matter, b—Scrubber for removing SO<sub>2</sub> pollution

26. Crop rotation helps in

- (A)Increase in soil fertility  
(B)Decrease in soil erosion  
(C)Decrease water loss  
(D)Decrease in soil fertility

27. Mulching is helpful in

- (A)Increasing soil fertility  
(B)Improvement of soil structure  
(C)Moisture and soil conservation  
(D)Better crops

28. Crop residue allowed to decay and decompose in farm land is called

- (A)Mulching  
(B)Strip cropping  
(C)Contour farming  
(D)Terracing

29. Bhopal gas tragedy of 1984 took place because methyl isocyanate reacted with

- (A)DDT  
(B)Ammonia  
(C)CO<sub>2</sub>  
(D)Water

30. UNEP stands for

- (A)United Nations Ecotype Programme  
(B)United Nations Ecological programme

- (C)United Nations Education Programme  
(D)United Nations Environment Programme
31. 'Van Mahotsav' was started by  
(A)K.M. Munshi (B)Sunder Lal Bahuguna  
(C)Vinoha Bhawe (D)J.L. Nehru
32. Terracing helps in soil conservation in  
(A)Plains (B)Deserts  
(C)Hilly areas (D)Wet areas
33. Deforestation means  
(A)Growing plants and trees in an area where there is no forest  
(B)Growing plants and trees in an area where the forest is removed  
(C)Growing plants and trees in a pond  
(D)Removal of plants and trees
34. The sphere of living matter found on the surface of earth comprises  
(A)Lithosphere  
(B)Hydrosphere  
(C)Atmosphere  
(D)Biosphere/All the above
35. Pollutant which causes acid rain is  
(A)SO<sub>2</sub> (B)CO<sub>2</sub>  
(C)CO (D)Hydrocarbons
36. Atmosphere of big/metropolitan cities is polluted most by  
(A)Automobile exhausts (B)Pesticide residue  
(C)Household waste (D)Radioactive fallout.
37. Beauty of Taj may be destroyed by  
(A)Flood in Yamuna  
(B)Temperature mediated spoilage of marble  
(C)Air pollutants from Mathura refinery  
(D)All the above
38. 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
39. Most harmful type of environmental pollutants are  
(A)Human organic wastes

- (B) Natural nutrients in excess  
(C) Waste animal feed  
(D) Nonbiodegradable chemicals
40. When domestic sewage mixes with river water  
(A) Small animals like rats will die after drinking river water  
(B) The increased microbial activity releases micronutrients such as iron  
(C) The increased microbial activity uses up dissolved oxygen  
(D) The river water is still suitable for drinking as impurities are only about 0.1%
41. If we remove half of the forest cover of earth, the crisis that will occur  
(A) Many species would become extinct  
(B) Population, pollution and ecological imbalance will rise  
(C) Energy crisis will commence  
(D) The remaining forest will correct the imbalance
42. Deforestation does not lead to  
(A) Quick nutrient cycling  
(B) Soil erosion  
(C) Alteration of local weather conditions  
(D) Destruction of natural habitat of wild animals
43. Chipko movement started in  
(A) 1963  
(B) 1974  
(C) 1983  
(D) 1993
44. Deforestation is  
(A) Removal of trees  
(B) Tree plantation in an area where there is no forest  
(C) Tree plantation in an area where forest was removed  
(D) Growing plants in a pond
45. 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
46. Chlorofluorocarbon releases a chemical harmful to ozone  
(A) Fluorine  
(B) Chlorine  
(C) Nitrogen peroxide  
(D) Sulphur dioxide

47. Increasing skin cancer and high mutation rate are due to  
(A) Acid rain (B) Ozone depletion  
(C) CO pollution (D) CO<sub>2</sub> pollution
48. Major aerosol pollutant in jet plane emission is  
(A) Sulphur dioxide (B) Carbon monoxide  
(C) Methane (D) Fluorocarbon
49. Biomagnification of DDT causes decline in bird population by  
(A) Bringing disturbance in calcium metabolism  
(B) Thinning of egg shell  
(C) Premature breaking of eggs  
(D) All of the above
50. Chernobyl nuclear tragedy occurred in  
(A) April 26, 1986  
(B) August 6, 1945  
(C) August 9, 1945  
(D) December 3, 1984

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