CHEMISTRY

BOOKS - UNIVERSAL BOOK DEPOT 1960 CHEMISTRY (HINGLISH)

ENVIRONMENTAL CHEMISTRY

Ordinary Thinking Air Polution

1. Major aerosol pollutant present in jet plane emission is :

A. Sulphur dioxide

B. Fluorocarbon

C. Carbon tetrachloride

D. Carbon monoxide

Answer: B

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2. One of them contributes maximum to air

pollution

A. India

B. USA

C. Russia

D. Britain

Answer: B

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3. Green house effect is caused by

A. Green plants

B. Infra red rays

C. UV rays

D. X rays

Answer: B

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4. Green chemistry means such reactions which

A. Produce colour during reactions

B. Study the reaction in plants

C. Are related to the depletion of ozone

layer

D. Reduce the use and production of

hazardous chemicals

Answer: D

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5. Which one of the following statements regarding photochemical smog is not correct?

A. Carbon monoxide does not play any role in photochemical smog formation

B. Photochemical smog is an oxidizing agent in character

C. Photochemical smog is formed through photochemical reaction involving solar energy

D. Photochemical smog does not cause irritation in eyes and throat

Answer: D

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6. Which of the following is not a common component of photochemical smog?

A. Acrolein

B. Chlorofluorocarbons

C. Ozone

D. Peroxyacetyl nitrate

Answer: C

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7. Which of the following strategy is not a correct approach to reduce global warming ?

A. Reducing the greenhouse gas emission by limiting the use of fossil fuels

B. Increase the vegetation cover particularly the forest photosynthetic utilization of CO_2

C. Minimizing the use of nitrogen fertilizers in agriculture for reducing N_2O emission

D. Increasing the use of air conditioners, refrigeration and production of plastic foams and propellants in aerosol spray cans

Answer: D

8. What are the chief pollutants of the atmosphere which are most likely to deplete the ozone layer ?

A. Carbon dioxide

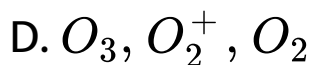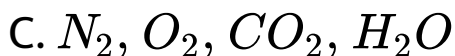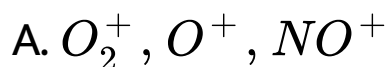B. Nitrogen oxide and fluorocarbons

C. Sulphur dioxide

D. Carbon monoxide

Answer: B

9. The chemical entities present in thermosphere of the atmosphere are

A. O_2^+, O^+, NO^+

B. O_3

C. N_2, O_2, CO_2, H_2O

D. O_3, O_2^+, O_2

Answer: D

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10. Metal generally present in polluted air is

    A. Cadmium

    B. Lead

    C. Mercury

    D. Zinc

Answer: B

11. Carbon monoxide (CO) is harmful to man because

    A. It forms carbonic acid

    B. It generates excess CO_2

    C. It is carcinogenic

    D. It competes with O_2 for haemoglobin

Answer: D

12. Identify the wrong statement in the following:

A. Greenhouse effect is responsible for global warming

B. Ozone layer does not permit infrared radiation from the sun to reach on the earth

C. Acid rain is mostly because of oxides of

nitrogen and sulphur

D. Chlorofluorocarbons are responsible for

ozone layer depletion

Answer: B

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13. U^{238} emits

A. Gamma-rays

B. Beta-rays

C. Alpha-rays

D. None of these

Answer: C

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14. Which of the following damages WBC, bone-marrow and lymph nodes

A. I^{131}

B. Ca^{40}

C. Caesium

D. Sr^{90}

Answer: A

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15. Permissible noise levels in a residential area at night time is

A. 35 db

B. 40 db

C. 50 db

D. 45 db

Answer: C

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16. Global climate is threatened by increase in

concentration of

A. Oxygen

B. Water vapours

C. Nitrogen

D. Greenhouse gases

Answer: D

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17. Which of the following statement is incorrect

A. Nitrogen and Mg can pollute water

B. All pollutants

C. Carbon monoxide is the major environment pollutant

D. Lichens are affected by sulphur dioxide

Answer: B

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18. Which of the following is a secondary pollutant ?

A. NO_2

B. CO

C. O_3

D. SO_2

Answer: C

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19. When solid particles of the size less than

1.0 pm are suspended in air, it is called

A. Dust

B. Smoke

C. Fume

D. Fly ash

Answer: C

20. Which of the following group of gases

cause photochemical smog?

A. O_2 , PAN and NO_2

B. O_2, PAN and NO_3

C. O_3 , PAN and CO

D. O_3 , PAN and NO_2

Answer: D

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21. Domestic waste is

A. Non-biodegradable pollutants

B. Biodegradable pollutants

C. Hydrocarbons

D. None of the above

Answer: B

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22. Some effect of sulphur dioxide and its transformation products on plant include:

A. Chlorophyll destruction

B. Golgi body destruction

C. Plasmolysis

D. None of the above

Answer: A

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23. The pollutant released by jet aerosplanes in the atmosphere as fluorocarbons are called

A. Loess

B. Photochemical oxidants

C. Aerosols

D. Smog

Answer: C

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24. Radioactive strontium as result of:

A. Sr^{85}

B. Sr^{90}

C. Sr^{80}

D. Sr^{95}

Answer: B

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25. Lead (P) causes

A. Radioactive pollution

B. Air pollution

C. Soil pollution

D. All of the above

Answer: B

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26. Pollution in big cities can be controlled to

a large extent by

A. By proper sewage and proper exit of

chemicals from factories

B. By wide roads and factories away from

the city

C. By cleaning city and scanty use of

pesticides

D. All of the above

Answer: D

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27. The stratospheric ozone depletion leads to

A. Forest fires

B. Increase in the incidence of skin cancers

C. Global warming

D. All of the above

Answer: D

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28. HeLa cells used in cell biology are:

A. Cancerous cells grown in cancer

    research laboratory

B. Cervical cancer cell derivatives

C. Both (a) and (b)

D. None of these

Answer: C

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29. Which of the following is normally not an atmospheric classified pollutant?

A. Carbon monoxide

B. Carbon dioxide

C. Sulphur dioxide

D. Hydrocarbons

Answer: B

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30. Montreal protocol which calls for appropriate action to protect the ozone layer from human activities was passed in the year:

A. 1988

B. 1986

C. 1985

D. 1987

Answer: D

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31. Concentration of green houses gases is increasing due to

    A. Use of refrigerator

    B. Increased combustion of oils and coal

    C. Deforestation

    D. All of the above

Answer: D

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32. Smog is common pollutant in places having:

A. Excessive SO_2 in the air

B. Low temperature

C. High temperature

D. Excessive ammonia in the air

Answer: B

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33. Ozone hole is maximum over

A. Europe

B. Antarctica

C. India

D. Africa

Answer: B

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34. It is said that the Taj Mahal may be destroyed due to :

   A. Flood in Yamuna river

   B. Decomposition of marble as a result of high temperature

   C. Air pollutants released from oil refinery of Mathura

   D. All the above

Answer: C

35. Which of the following serves as indicator of atmospheric pollution ?

A. Ferns

B. Liverworts

C. Hornworts

D. Epiphytic lichens

Answer: D

36. Which is the most SO_2 polluted city

    A. Bombay

    B. Calcutta

    C. Delhi

    D. Madras

Answer: B

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37. Green house effect is due to the presence of

A. Moisture layer in the atmosphere

B. Infrared light reaching the earth

C. Ozone layer in the atmosphere

D. CO_2 layer in the atmosphere

Answer: D

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38. In cities like Mumbai and Kolkata, the major air pollutants are:

A. Carbon monoxide and oxides of sulphur

B. Ozone

C. Hydrocarbons and hot air

D. Pollens and marsh gas

Answer: A

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39. The major pollution causing agent is :

A. Man

B. Hydrocarbon gases

C. Animals

D. None of the above

Answer: A

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40. Checking of radiating heat by atmospheric dust, water vapour, ozone, CO_2 etc., is known as:

A. Radioactivity

B. Ozone effect

C. Solar reaction

D. Green house effect

Answer: D

41. Pollution can be controlled by

A. Sewage treatment

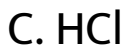B. Manufacturing electrically operated

vehicles

C. By checking atomic blasts

D. All of the above
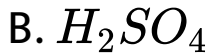
Answer: D

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42. 70% component of acid rain is :

A. HNO_3

B. H_2SO_4

C. HCl

D. CO_2

Answer: B

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43. The most harmful air pollutant produced by automobiles is

A. NO_2

B. CH_4

C. CO

D. SO_2

Answer: C

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44. Carbon monoxide is a pollutant because it:

A. It reacts with O_2

B. It inhibits glycolysis

C. Combines with haemoglobin

D. Makes nervous system inactive

Answer: C

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45. Which of the following country is responsible for releasing largest amount of greenhouse gases

A. Russia

B. Brazil

C. Germany

D. America (USA)

Answer: D

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46. Which of the following is pollution related disorder?

A. Hypertension

B. Leprosis

C. fluorosis

D. Pneumoconiosis

Answer: C

47. Checking of radiating heat by atmospheric dust, water vapour, ozone, CO_2 etc., is known as:

A. Greenhouse effect

B. Ozone layer effect

C. Radioactive effect

D. Solar effect

Answer: A

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48. In the coming years, skin related disorders will be more common due to :

A. Pollutants in air

B. Use of detergents

C. Water pollution

D. Depletion of ozone layer

Answer: D

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49. In the last decades, most serious nuclear reactor accident created MIC gas tragedy in

    A. Russia (1990) and Bhopal (1996)

    B. Ucraine (1986) and Bhopal (1984)

    C. Bhopal (1994) and Russia (1990)

    D. Ucraine and USA (1984)

Answer: B

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50. Which important green house gas other than methane is being produced from the agricultural fields ?

A. Ammonia

B. Sulphur dioxide

C. Arsine

D. Nitrous oxide

Answer: D

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51. The Taj Mahal is threatened due to the effect of

A. Chlorine

B. Sulphur dioxide

C. Oxygen

D. Hydrogen

Answer: B

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52. Secondary pollutant which stops Hill reaction is

    A. Aldehydes

    B. Nitric acid

    C. Peroxyacetyl nitrate (PAN)

    D. Sulphuric acid

Answer: C

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53. Photochemical smog is related to the pollution of :

A. Noise

B. Water

C. Soil

D. Air

Answer: D

54. Which one of the following is not a device used to control a particulate matter

A. Arresters

B. Scrubbers

C. Filters

D. Incinerator

Answer:

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55. In big cities, air pollution is due to:

A. Burning of fossil fuels

B. Sewage

C. Thermal power plant

D. H_2S

Answer: A

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56. Most hazardous metal pollutant of automobile exhaust is

A. Cadmium

B. Lead

C. Mercury

D. Copper

Answer: B

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57. Effects of air pollution are usually seen on the

    A. Leaves

    B. Stems

    C. Flowers

    D. Roots

Answer: A

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58. Carbon monoxide is a major pollutant of

A. Soil

B. Air

C. Noise

D. Water

Answer: B

59. "Heat islands" are produced due to:

A. Air pollution

B. Land pollution

C. Water pollution

D. All of the above

Answer: D

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60. Oxides of sulphur and nitrogen are important pollutants of :

A. Soil

B. Air

C. Water Pollution

D. ALL OF THESE

Answer: D

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61. Gases referred to as greenhouse gases are

A. CO_2, O_2, NO_2, NH_3

B. Chlorofluoro carbon,CO_2, NH_3, N_2

C. CH_4, N_2, CO_2, NH_3

D. Chlorofluoro carbon , CO_2, CH_4, NO_2

Answer: D

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62. Which is a degradable pollutant ?

A. Mercury salts

B. Aluminium foil

C. Domestic wastes

D. D.D.T.

Answer: C

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63. Which of the following pollutant is released in large quantity from the exhaust emission of a petrol/diesel automobile

A. CO

B. CO_2

C. NO_2, SO_2 and Pb

D. Hydrocarbons

Answer: A

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64. CO is more toxic than CO_2 because it :

A. It affects the nervous system

B. It damages lungs

C. It reduces the oxygen carrying capacity of haemoglobin

D. It forms acid with water

Answer: C

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65. The ultimate environmental hazard to mankind is:

A. Noise pollution

B. Water pollution

C. Air pollution

D. Nuclear pollution

Answer: D

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66. In almost all Indian metropolitan cities like Delhi, the major atmospheric pollutant(s) is/are

A. Suspended particulate matter (SPM)

B. Oxides of nitrogen

C. Carbon dioxide and carbon monoxide

D. Oxides of sulphur

Answer: A

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67. The most adverse effect of radioactive

pollutants

A. Gene mutation

B. Hepatitis

C. Polio

D. TB

Answer: A

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68. The main air pollutant is :

A. N_2

B. CO

C. CO_2

D. Sulphur

Answer: B

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69. This pollutant causes burning sensation of throat and eyes and also vomiting:

A. Hydrogen sulphide

B. Sulphur

C. Hydrogen cyanid

D. Arsenic substances

Answer: A

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70. Chernobyl tragedy occurred in

A. 9th May, 1945

B. 26th April, 1986

C. 6th Aug, 1947

D. 26th May, 1966

Answer: B

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71. Effect of pollution is on:

A. Linkage

B. Ecological balance

C. Crossing over

D. Mutation

Answer: B

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72. Green muffler is used against which type of pollution?

A. Soil

B. Water

C. Air

D. Noise

Answer: D

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73. Aerosols reduce primary productivity by :

A. Destroying leaf tissue

B. Premature leaf fall

C. Reducing Photosynthesis

D. All of these

Answer: C

74. Positive pollution of soil is due to:

A. Excessive use of fertilizers

B. Addition of wastes on soil

C. Reduction in soil productivity

D. All of these

Answer: D

75. "Ozone Day" is observed on:

A. January 30

B. $April21$

C. $September16$

D. $December25$

Answer: C

76. SO_2 pollution affects which part of the plant

A. Chloroplast

B. Mitochondria

C. ER

D. Lysosome

Answer: A

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77. Effect of pollution is first marked on

    A. Micro-organisms

    B. Green vegetation of an area

    C. Food crop

    D. None of these

Answer: B

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78. Which one of the following is most poisonous ?

A. CO

B. CO_2

C. C

D. SO_2

Answer: A

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79. In a coal fired power plant, electrostatic precipitators are installed to control emission of

A. SO_2

B. NO_x

C. SPM

D. CO

Answer: C

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80. Which one of the following pairs 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

Answer: C

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81. 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. Industrial smog

    C. Dry acid deposition

    D. Wet acid deposition

Answer: C

82. Which of the following strategy is not useful for global warming

A. Use of fossil fuel in limit

B. Increase in forest

C. Increasing use of nitrogen fertilizers

D. Use of other options in place of CFC

Answer: C

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83. The ultraviolet radiations in the stratosphere are absorbed by:

A. Ozone

B. Carbon dioxide

C. Oxygen

D. Sulphur dioxide

Answer: A

84. Examples of regional pollutions are :

A. Smog

B. Acid rain

C. Both (a) and (b)

D. None of these

Answer: C

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85. Which one of the following gases can deplete ozone layer in the upper atmosphere ?

A. Ammonia

B. Methane

C. Carbon monoxide

D. Sulphur dioxide

Answer: B

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86. In 1984, the Bhopal gas tragedy took place because methyl isocyanate :

    A. Reacted with ammonia

    B. Reacted with water

    C. Reacted with DDT

    D. Reacted with CO

Answer: B

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87. The term biomagnification refers to:

A. Growth of organism due to food consumption

B. Increase in population size

C. Blowing up of environmental issues by man

D. Increase in the concentration of non-degradable pollutants as they pass through food chain

Answer: D

88. Odd pollutant amongst the following is :

A. SO_2

B. CO

C. CO_2

D. Acid rain

Answer: D

89. Which of the following is a sink for CO?
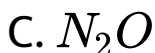
A. Micro organism present in the soil

B. Oceans

C. Plants
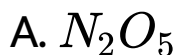
D. Haemoglobin

Answer: A

90. Which oxide of nitrogen is not a common pollutant introduced into the atmosphere both due to natural and human activity?

A. N_2O_5

B. NO_2

C. N_2O

D. NO

Answer: A

1. Which of the following does not cause pollution?

    A. Hydroelectric Power PLANT

    B. Automobiles

    C. Nuclear energy project

    D. Thermal power project

Answer: A

2. Most important cause of soil pollution is:

A. Plastics

B. Iron junks

C. Detergents

D. Glass junks

Answer: A

3. BOD is connected with the

    A. Organic matter

    B. Microbes

    C. Both (a) and (b)

    D. None of these

Answer: C

4. The process of "eutrophication" is due to:

A. increase in concentration of insecticide

in water

B. Increase in concentration of fluoride ion

in water

C. The reduction in concentration of the

dissolved oxygen in water due to

phosphate pollution in water

D. Attack of younger leaves of a plant by peroxyacetyl nitrate

Answer: C

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5. Excess nitrate in drinking water can cause:

A. Methemoglobinemia

B. Kidney damage

C. Liver damage

D. Laxative effect

Answer: A

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6. Frequent occurrence of water blooms in a lake indicates

A. Nutrient deficiency

B. Oxygen deficiency

C. Excessive nutrient availability

D. Absence of herbivores in the lake

Answer: B

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7. Excessive accumulation of organic matter in

water bodies leads of :

A. Decrease in species diversity

B. Increase in species diversity

C. Green house effect

D. No effect on species diversity

Answer: A

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8. Limit of BOD prescribed by Central Pollution Control Board for the discharge of industrial and muncipal waste water into natural surface water:

A. $< 3.0 \text{ppm}$

B. < 30ppm

C. < 100ppm

D. < 10 ppm

Answer: B

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9. B.O.D. test is made for measuring

A. Noise pollution

B. Water pollution

C. Air pollution

D. Soil pollution

Answer: B

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10. Which of the following causes outbreak of

jaundice

A. Air pollution

B. Water pollution

C. Thermal pollution

D. Soil pollution

Answer: B

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11. In B.O.D. test, oxygen plays an important role to

A. Destroy pollution

B. Destroy inorganic matter

C. Destroy waste organic matter

D. None of these

Answer: C

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12. Water pollution can be stopped best by

A. Treating effluents to remove injurious

chemicals

B. Rearing more fishes

C. Cultivating useful water plants

D. Spraying with DDT

Answer: A

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13. Brewery and sugar factory waster alters the quality of a water body by increasing

A. pH

B. Temperature

C. Turbidity

D. COD and BOD

Answer: D

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14. Black-foot disease is caused due to groundwater contaminated with excess of

A. Mercury

B. Sulphur

C. Arsenic

D. Fluoride

Answer: C

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15. In the treatment of waste water before
discharge which treatment stage inovolve
biological treatment ?

A. Primary treatment

B. Secondary treatment

C. Tertiary treatment

D. Reverse osmosis stage

Answer: B

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16. What will be the effect of addition of organic material on water?

A. COD remain unaffected

B. BOD remain unaffected

C. Increases BOD

D. Reduces BOD

Answer: C

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17. 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 increase production of fish due to lot of nutrients

C. Death of fish due to lack of oxygen

D. Increased population of aquatic food web organisms

Answer: C

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18. Minimata disease first occurred in

A. Japan

B. China

C. Korea

D. Russia

Answer: A

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19. 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

Answer: B

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20. Which one of the following is not a bioindicator of water pollution ?

A. Sludge-worms

B. Blood-worms

C. Stone files

D. Sewage fungus

Answer: C

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21. A process that uses micro-organisms to convert harmful industrial wastes to less toxic or non-toxic compounds is

A. Complement fixation

B. Precipitation

C. Bioremediation

D. Bioconversion

Answer: C

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22. Which of the following plant is used for the purification of water

    A. Biggiata

    B. Chlorella

    C. Spirogyra

    D. Eichhornia

Answer: D

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23. Water pollution is caused by :

A. Sewage and other wastes

B. Industrial effluents

C. Agricultural discharges

D. All of these

Answer: B

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24. In which one of the following the BOD (Biochemical Oxygen Demand) of sewage (S), distillery effluent (DE), paper mill effluent (PE) and sugar mill effluent (SE) have been arranged in ascending order ?

A. SE lt S lt PE lt DE

B. SE lt PE lt S lt DE

C. PE lt S lt SE lt DE

D. S lt DE lt PE lt SE

Answer: A

25. Biological oxygen demand (BOD) is a measure of

   A. Industrial wastes poured into water bodies

   B. Extent to which water is polluted with organic compounds

   C. Amount of carbon monoxide inseparably combined with haemoglobin

D. Amount of oxygen needed by green plants during night

Answer: B

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26. Which of the following metal is a water pollutant and causes sterility in human being

A. As

B. Mn

C. Mg

D. Hg

Answer: D

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27. In 2002 ,CFC concentration of atmosphere was

A. 326 ppb

B. 1750 ppb

C. 261 ppm

D. 368 ppm

Answer: C

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28. Eutrophication can be observed in

A. Saline soil

B. Desert

C. Lake

D. Agricultural fields

Answer: C

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29. Which of the following does not occur when the sewage is discharged into water

A. Increase in O_2

B. Cyanophycean blooms occur

C. Depletion of layers

D. Eutrophication

Answer: A

30. Which of the following is not used for disinfection of drinking water?

A. Chlorine

B. Ozone

C. Chloramine

D. Phenyl

Answer: D

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31. The high amount of E, coli in water is the

A. Hardness of water

B. Industrial pollution

C. Sewage pollution

D. Presence of chlorine in water

Answer: C

32. Bio-indicators are used for

A. Oxygen demand

B. Air pollution

C. Mineral present

D. All of these

Answer: D

33. Which of the following are water pollutants?

    A. Smoke

    B. Industrial waste

    C. Detergent

    D. Ammonia

Answer: B

34. Which of the following causes water pollution?

A. 2.4-D and pesticides

B. Smoke

C. Automobile exhaust

D. Aeroplanes

Answer: A

35. Which of the following is the use of lichens in case of pollution ?

    A. hey treat the polluted water

    B. They act as bioindicators of pollution

    C. They promote pollution

    D. Lichens are not related with pollution

Answer: B

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36. Measurement of rate of oxygen utillsation by a unit volume of water over a period of time is to measure.:

A. Biogas generation

B. Biochemical oxygen demand

C. Biosynthetic pathways

D. Fermentation

Answer: B

37. Thermal pollution of water bodies is due to discharge of:

A. heat (hot water) from power plants

B. chemicals from industries

C. waste from mining

D. agricultural run off

Answer: A

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38. Fishes die by sewage because

A. Of its bad smell

B. It replaces food material of fishes

C. It increases oxygen competition among

fishes

D. CO_2 is mixed in large amount in water

Answer: C

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39. The river 'Sone' receives wastes from

A. Refinery

B. Distillery

C. Textile mill

D. Paper mill

Answer: D

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40. Sewage water can be purified for recycling with action of :

A. Aquatic plants

B. Penicillin

C. Micro-organisms

D. Fishes

Answer: C

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41. One of the following is the chief source of water and soil pollution

A. Agro industry

B. Mining

C. Thermal power stations

D. All of these

Answer: D

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42. When huge amount of sewage is dumped into a river the BOD will:

A. Increase

B. Remain unchanged

C. Slightly decrease

D. Decrease

Answer: A

43. Phosphate pollution is caused by

A. Phosphate rock only

B. Agricultural fertilizers only

C. Sewage and phosphate rock

D. Sewage and agricultural fertilizers

Answer: D

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44. Water pollution

A. Increases oxygenation

B. Decreases turbidity

C. Increases turbidity and deoxygenation

D. Increases photosynthesis

Answer: C

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45. In a polluted lake, the index of pollution is:

A. Daphnia

B. DO and Artemisia

C. Presence of frogs

D. Diatoms larvae

Answer: A

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46. A dental disease characterised by motting of teeth is due to presence of a certain chemical element in drinking water. Which is that element?

A. Boron

B. Chlorine

C. Fluorine

D. Mercury

Answer: C

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47. Foul smell in the water of tanks, ponds etc.

is due to

A. Anaerobiosis

B. Acrobiosis

C. Biological magnification

D. Psammophytes

Answer: A

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48. Which one of the following statements 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

Answer: C

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49. BOD stands for

A. Biological organism death

B. Biochemical organic matter decay

C. Biotic oxidation demand

D. Biochemical oxygen demand

Answer: D

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50. Spraying of DDT produces pollution of

A. Air only

B. Air and soil only

C. Air soil and water

D. Air and water only

Answer: C

51. Biological treatment of water pollution is done with the help of

A. Phytoplankton

B. Lichens

C. Fungi

D. None of the above

Answer: A

Critical Thinking Objective Question

1. Which one of the following statement is not true ?

A. Oxides of sulphur, nitrogen and carbon are the most widespread air pollutant

B. pH of drinking water should be between

5.5-9.5

C. Concentration of DO below 6 ppm is

good for the growth of fish

D. Clean water would have a BOD value of

less than 5 ppm

Answer: C

2. What is DDT among the following

    A. Greenhouse gas

    B. A fertilizer

    C. Biodegradable pollutant

    D. Non-biodegradable pollutant

Answer: D

3. The concentration of fluoride, lead, nitrate and iron in a water sample from an underground lake was found to be 1000 ppb,40 ppb,100 ppm and 0.2 ppm, respectively. This water is unsuitable for drinking due to high concentration of

A. Lead

B. Nitrate

C. Iron

D. Fluoride

Answer: B

4. A water sample has ppm level concentration

of following anions

$$F^- = 10,\ SO_4^{2-} = 100,\ NO_3^- = 50$$

the anion/anions that make/makes the water

sample unsuitable for drinking is/are

    A. Both SO_4^{2-} and NO_3^-

    B. Only F^-

C. Only SO_4^{2-}

D. Only NO_3^-

Answer: B

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5. Photochemical smog formed in congested metropolitan cities mainly consists of :

A. Hydrocarbons, SO_2 and CO_2

B. Smoke , peroxyacetyl nitrate and SO_2

C. Ozone , peroxyacetyl nitrate and NO_x

D. Hydrocarbons , ozone and NO_3

Answer: D

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6. Under column I a list of gases that are known to have a "greenhouse effect" is given. Related them to their main source selecting

from the list given under the column II:

	Column I		Column II
A	Nitrous oxide	1	Secondary pollutant from car exhausts
B	Chlorofluorocarbons (CFCs)	2	Combustion of fossil fuels, wood, etc.
C	Methane	3	Denitrification
D	Ozone (O_3)	4	Refrigerators, aerosol, sprays
E	Carbon dioxide	5	Cattle, rice fields, toilets

A. A-3,B-4,C-5,D-1,E-2

B. A-5,B-1,C-3,D-4,E-2

C. A-4,B-5,C-1,D-2,E-3

D. A-1,B-3,C-4,D-5,E-2

Answer: A

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7. In Minamata Bay, Japan which of the following animals remained free from "Minamata disease"?

A. Dogs

B. Rabbits

C. Cats

D. Pigs

Answer: B

8. Recent reports of acid rain in some industrial cities are due to the effect of atmospheric pollution by :

A. Excessive release of CO_2 by burning of fuels like wood and charcoal, cutting of forests and increased animal population

B. Excessive release of NO_2 and SO_2 in atmosphere by burning of fossil fuel

C. Excessive release of NH_3 by industrial

plants and coal gas

D. Excessive release of CO in atmosphere by

incomplete combustion of coke, charcoal

and other carbonaceous fuel in paucity

of oxygen

Answer: B

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9. Air pollution causing plotochemical oxidants production include

    A. Oxygen, chlorine, fuming nitric acid

    B. Nitrous oxide, nitric acid fumes, nitric oxide

    C. Ozone, peroxyacetyl nitrate, aldehydes

    D. Carbon monoxide, sulphur dioxide

Answer: C

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10. Exposure of an organism to UV system cause

A. Photodynamic action

B. Formation of thymidine

C. Splitting of H-bonds of DNA

D. Splitting of phosphodiester bonds

Answer: C

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11. Which of the following pollutants affects more to organisms of the higher trophic level of a food chain due to biological amplification?

A. Sewage and plant fertilizers

B. Detergents

C. Heavy metals mercury salts and non-biodegradable phenolic chemicals

D. Poisonous cyanide

Answer: C

12. The presence of O_3 in the atmosphere of Earth:

A. Hinders higher rate of photosynthesis

B. Helps in checking the penetration of ultraviolet rays to earth

C. Has been responsible for increasing the average global temperature in recent years

D. Is advantageous since it supplies O_2 for

people travelling in jets

Answer: B

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13. The process in which nutrient enriched water bodies support a dense plant population, which kills animal life by depriving it of oxygen and results in subsequent loss of biodiversity is known as :

A. Species promotion

B. Biological magnification

C. Eutrophication

D. None of the above

Answer: C

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14. The component of a living cell affected by

the pollutant sulphur dioxide is :

A. Cell wall

B. All cell membrane system

C. Plasmodesmata

D. Nucleus

Answer: B

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15. Minimata disease is pollution related disease. It results from

A. Accumulation of arsenic into atmosphere

B. Oil spills into sea

C. Release of industrial waste mercury into fishing water

D. Release human organic waste into drinking water

Answer: C

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16. How does carbon monoxide emitted by automobiles prevents transport of oxygen in the body tissues ?

A. By changing oxygen into carbon dioxide

B. By destroying the haemoglobin

C. By forming a stable compound with haemoglobin

D. By obstructing the reaction of oxygen with haemoglobin

Answer: C

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