



CHEMISTRY

BOOKS - MODERN PUBLICATION CHEMISTRY (KANNADA ENGLISH)

ENVIROMENTAL POLLUTION

Multiple Choice Question Level I

1. The major air pollutant is

A. CO

B. Oxides of nitrogen

C. Soot

D. Oxides of sulphur.

Answer: A



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2. The region closest to earth surface is

A. Stratosphere

B. Mesospher

C. Troposphere

D. Themosphere.

Answer: C



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3. The major source of CO pollution is

A. Industrial processcs

B. vehicular exhaust

C. forest fires

D. volcanic activity

Answer: B



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4. Increased concentration of CO_2 in atmosphere

A. Greenhouse effect

B. Acid rain

C. Lack of photosynthesis

D. Death of aquatic life

Answer: A



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5. Which of the following species containing mercury is most toxic

A. CH_3Hg

B. HgCl_2

C. Hg_2Cl_2

D. Hg metal

Answer: A



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6. Marble acts as a sink for

A. Metallic pollutants

B. NH_3 pollutants

C. acidic pollutants

D. None of these

Answer: C



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7. Which of the following oxides of nitrogen is not common air pollutant

A. NO_2

B. N_2O

C. NO

D. N_2O_5

Answer: D



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8. Which one of the following particulates is most toxic

A. fly ash

B. soot

C. inorganic compounds

D. smog.

Answer: B



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9. Besides CO_2 other green house gas is

A. CH_4

B. N_2

C. Ar

D. O_2

Answer: A



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10. Which of the following is responsible for depletion of the ozone layer layer in the upper strata of the atomosphere

A. Fullerenes

B. Freons

C. Polyhalogens

D. Ferrocene.

Answer: B



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11. Petroleum refining and natural gas plant are the main sources of

A. H_2S

B. NH_3 pollutants

C. SO_2

D. Cl_2

Answer: A



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12. Ozone layer is present in

A. Stratosphere

B. Mesosphere

C. Troposphere

D. Exosphere

Answer: A



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13. Which of the following is a secondary pollutant

A. CO_2

B. SO_2

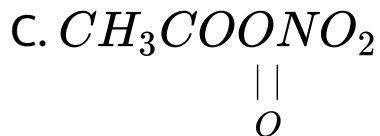
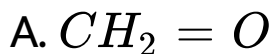
C. N_2O

D. PAN

Answer: D



14. PAN stands for



Answer: C



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15. Herbicides are used to kill weeds the common herbicide is

A. D.D.T

B. Triazine

C. Methyl mercury

D. PCBS.

Answer: B



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16. COD stands for

- A. Chemical Oxygen demand .
- B. Controlled oxygen demand
- C. clouds causing ozone depletion
- D. chlorinated Oxygen demand

Answer: A



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17. Acid rain has pH in the range

A. $O - 3$

B. $4 - 5$

C. $6 - 7$

D. $7 - 10$

Answer: B



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18. Which is most abundant hydrocarbon pollutant

A. methane

B. Propane

C. Acetylene

D. Ethane

Answer: A



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19. D.D.T is

A. An antibiotic

B. Biodegradable pollutant

C. Non - biodegradable pollutant

D. Not a pollutant

Answer: C



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20. Soil salinity can be measured by

A. Potentiometer

B. Calorimeter

C. Conductivity meter

D. All of these

Answer: C



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21. Oxides of sulphur and nitrogen are important pollutants of

A. Water

B. Air

C. Soil

D. All of these

Answer: B



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22. Most dangerous metal pollutant of automobile exhausts is

A. Lead

B. Copper

C. Mercury

D. Cadmium.

Answer: A



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23. Taj mahal is thretened by pollution from

A. Oxygen

B. Carbond dioxide

C. Sulphur dioxide

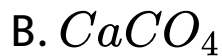
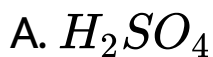
D. Chlorine

Answer: C



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24. How is acid rain caused ?



Answer: A



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25. In upper stratospher ozone protects us from

- A. Infranred radiations
- B. ultravlolet radiations
- C. carbon dioxide
- D. peroxyacetyl nitrate

Answer: B



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26. The main culprit for the depletion of protective ozone layer is

A. Oxygen

B. CFCs

C. Oxides of S

D. Particulate matter.

Answer: B



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27. It is not advised to sleep in a closed room with a coke fire burning inside on a cold day because of the harmful effects of

A. CO

B. carbond particulates

C. CO_2

D. SO_2 preseten as impurity in ckke fire.

Answer: A



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28. Which of the following has least permissible limit in drinking water

A. Chlorides

B. Dissolved oxygen

C. Zinc

D. lead.

Answer: D



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29. Bhopal gas tragedy was caused by

- A. Methyl amine
- B. Methyl isocyanate
- C. Phosgene
- D. Chloroform

Answer: B



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30. Which of the following gases is not a greenhouse gas

A. CO

B. O_s

C. CH_4

D. H_2O vapour

Answer: A



31. Which is most abundant hydrocarbon pollutant

A. Methane

B. propane

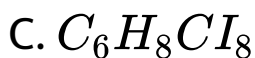
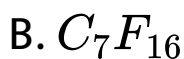
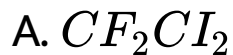
C. Acetylene

D. Ethane

Answer: A



32. Ozone in the stratosphere is depleted by



Answer: A



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33. The environmental friendly method of killing harmful insects is through the use of

- A. Insecticides
- B. Sex attractants
- C. Sex hormoes
- D. Pesticides

Answer: B



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34. The pH of normal rainwater is

A. 6.5

B. 7.5

C. 5.6

D. 3.5

Answer: C



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35. The maximum prescribed concentration of cadmium in drinking water in ppm is

A. 0.05

B. 3

C. 2

D. 0.005

Answer: D



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Multiple Choice Question Level II

1. White lung cancer is caused by

A. Sitalic acid

B. Nitric oxide

C. Paper

D. Textiles

Answer: B



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2. Which of the following metal has maximum recommended level in drinking water

A. Cadmium

B. Zinc

C. Aluminium

D. Iron.

Answer: B



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3. The clean water should have BOD value

A. less than 5 ppm

B. 10 ppm

C. 20 ppm

D. 100ppm.

Answer: A



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4. Burning of fossil should have BOD value :

A. Nitrogen oxide

B. Nitric oxide

C. Nitrous oxide

D. Sulphur dioxide

Answer: D



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5. Acid rains are produced by :

A. excess release of carbon monoxide by incomplete combustion

B. excess formation of carbon dioxide by combustion and respiration.

C. excess production of NH_3 by industries.

D. excess NO_2 and SO_2 from burning fossil fuels.

Answer: D



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6. Which of the following is the primary precursor of photochemical smog ?

A. Ozone

B. Peroxyacetyl nitrate

C. NO_2

D. CO_2

Answer: C



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7. Photochemical smog occurs in warm dry and sunny climate. One of the following is not amongst the components of photochemical smog identify it.

A. NO_2

B. O_3

C. SO_2

D. Unsaturated hydrocarbon

Answer: C



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8. Biochemical Oxygen demand (BOD) is a measure of organic material present in water. BOD value less than 5 ppm indicates a water sample to be

A. rich in dissolved oxygen

B. poor in dissolved oxygen

C. highly polluted

D. not suitable for aquatic life .

Answer: A



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9. Which of the following statements about photochemical smog is wrong ?

A. It has high concentration of oxidising agents

B. It has low concentration of oxidising agents

C. it can be controlled oxidising agents release of NO_2 hydrocarbons ozone etc.

D. Planatation of some plants like pinus helps in controlling photochemical smog.

Answer: B



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10. Which of the following statement is not true about classical smog ?

A. Its main components are produced by the action of sunlight on emission of automobiles on emission of automobiles and factories .

B. Produced in cold and humid climate.

C. it contains compounds of reducing nature.

D. it contains smoke fog and sulphur dioxide .

Answer: A



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11. Which of the following statements is wrong ?

A. Ozone is not responsible for greenhouse effect.

B. Ozone can oxidise sulphur dioxide present in the atmosphere to sulphur trioxide .

C. Ozone hole is thinning of ozone layer present

D. Ozone is produced in upper stratosphere by the action of UV rays on oxygen.

Answer: A



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12. Sewage containing organic waste should be disposed in water bodies because it causes major water pollution . Fishes such a polluted water die because of

A. Larger number of mosquitoes.

B. Increase in the amount of dissolved oxygen

C. Decrease in the amount of dissolved oxygen in water.

D. Clogging of gills by mud.

Answer: C



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13. The gaseous envelope around the earth is known as atmosphere. The lowest layer of this is extended upto 10 km from level. This layer is _____

A. Stratosphere

B. Troposphere

C. Mesosphere

D. Hydrosphere

Answer: B



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14. Dinitrogen and dioxygen are main constituents of air but these do not react with each other to form oxides of nitrogen because

- A. the reaction is endothermic and requires very high temperature.
- B. the reaction can be initiated only in presence of a catalyst.
- C. oxides of nitrogen are unstable .
- D. N_2 and O_2 unreactive .

Answer: A



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15. The pollution which come directly in the air from sources are called primary pollutants . Primary pollutants are sometimes converted into secondary pollutants. Which of the following belong to secondary air pollution ?

A. CO

B. Hydrocarbon

C. NO

D. Peroxyacetyl nitrate

Answer: D



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16. Which of the following practices will not come under green chemistry ?

A. If possible making use of soap made of vegetable oils instead of using synthetic detergents.

B. Usings H_2O for bleaching purpose instead of using chlorine based bleaching agents

C. Using bicycle for travelling small distances instead of using petrol / diesel based vehicles .

D. using plastic cans for neatly storing substance

Answer: D



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17. The factor responsible for highest CO contamination in air is :

A. acrolein

B. peroxy acetyl nitrate

C. SO_2 and SO_3

D. chlorine nitrate

Answer: C



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18. In Antarctica ozone depletion is due to the formation of the following compound.

- A. forest fires
- B. vehicular exhaust
- C. volcanic activity
- D. industrial processes.

Answer: D



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19. 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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20. Green chemistry means such reactions which :

A. Produce colour during reaction

B. Reduce the use and production of hazardous chemical

C. Are related to the depletion of ozone layer

D. Study the reaction in plants.

Answer: B



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21. The ozone layer forms naturally by

A. the interaction of CFC with oxygen

B. the interaction of UV radiation with oxygen

C. the interaction of IR radiation with oxygen

D. the interaction of oxygen and water vapour.

Answer: B



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22. Which one of the following statements is not true ?

A. 1. pH of drinking water should be between 5.5-9.5

B. 2. Concentration of DO below 6 ppm is good for the growth of fish.

C. 3. Clean water would have BOD value of less than 5 ppm.

D. 4. Oxides of sulphur . Nitrogen and carbon are the most widespread air

pollutant.

Answer: B



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23. Excess nitrate in drinkin water can cause

A. methemoglobinemia

B. liver damage

C. kindey

D. damage

Answer: A



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24. The gas emitted by supersonic jet planes that slowly depletes the concentration of ozone layer is

A. CO

B. NO

C. SO_2

D. O_2

Answer: B



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25. CCl_4 and freons

A. are green compounds because they are green coloured

B. deplete ozone concentration

C. cause increase in ozone concentration

D. have no effect on ozone concentration

Answer: B



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26. The smog is essentially caused by the presence of :

A. Oxides is sulphur and nitrogen

B. O_2 and N_2

C. O_2 and O_3

D. O_3 and N_2

Answer: A



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27. In Antarctica ozone depletion is due to the formation of the following compound.

- A. acrolein
- B. peroxyacetyl nitrate
- C. SO_2 and SO_3
- D. chlorine nitrate

Answer: D



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28. Identify the wrong statement from the following:

A. Acid rain is mostly because of oxides of nitrogen and sulphur

B. Chlorfluorocarbons are responsible for ozone layer depletion

C. Greenhouse effect is responsible for global warming

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

Answer: D



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29. Which one of the following statement regarding photochemical smog is not correct.

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

B. Photochemical smog is an oxidising agent in character.

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

D. Photochemical smog does not cause .

Irritation eyes and throat.

Answer: D



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30. Ozone depletion is initiated by

A. Cl

B. ClO

C. CF_2Cl

D. N_2O

Answer: A



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Multiple Choice Question Level Iii

1. What is D.D.T among the following

A. Non - biodegradable pollution

B. Greenhouse gas

C. A fertilier

D. Biodegradable pollution

Answer: A



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2. The gas leaked from a storage tank of the Union Carbide plant in Bhopal gas tragedy was :

A. Methylisocyanate

B. Methylamine

C. Ammonia

D. Phosgene .

Answer: A



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3. Assertion : Nitrogen and Oxygen are the main components in the atmosphere but these do not react to form oxides of nitrogen

Reason : The reaction between nitrogen and oxygen requires high temperature.

A. both assertion and reason are correct and the reason is the correct explanation for the assertion.

B. both assertion and reason are correct but

C. the assertion is incorrect but the reason is correct

D. Both the assertion and reason are incorrect.

Answer: A



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Recent Examination Questions

1. Which of the following compound is responsible for depletion of ozone layer ?

A. Freon

B. Chloroform

C. D.D.F

D. Iodoform

Answer: A



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2. BOD is a measure of

- A. Ozone depletion in the stratosphere due to too many free radicals.
- B. Suspended particulate matter in the air causing problems
- C. Pesticides which are non biodegradable in the soil and water.
- D. Organic material present in water needing dissolved oxygen to break them down depleting oxygen content in water.

Answer: D



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