



CHEMISTRY

BOOKS - MTG WBJEE CHEMISTRY (HINGLISH)

ENVIRONMENTAL CHEMISTRY

**Wb Jee Workout Category 1 Single Option
Correct Type**

1. Which of the following is the uppermost region of the atmosphere?

A. Stratosphere

B. Troposphere

C. Exosphere

D. Ionosphere

Answer: C



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2. Which of the following is the coldest region ?

A. Troposphere

B. Mesosphere

C. Stratosphere

D. Thermosphere

Answer: B



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3. Which of the following is a secondary pollutant?

A. CO_2

B. N_2O

C. SO_2

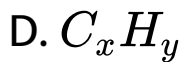
D. PAN

Answer: D



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4. Which of the following is not considered to be a pollutant?



Answer: B



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5. Which of the following has greatest affinity for haemoglobin?

A. CO

B. NO_2

C. O_2

D. CO_2

Answer: A



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6. The most abundant hydrocarbon pollutant is

A. methane

B. ethane

C. propane

D. butane.

Answer: A



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7. Which of the following is not involved in formation of photochemical smog?

A. NO

B. O_3

C. C_xH_y

D. SO_2

Answer: D



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8. Green chemistry deals with the production and use of

A. plastics

B. environmental friendly materials

C. cheap materials

D. non-biodegradable materials.

Answer: B



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9. The aromatic compounds present as particulates are

A. benzene

B. toluene

C. nitrobenzene

D. polycyclic hydrocarbons.

Answer: D



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10. Global warming can lead to

- A. flooding of low lying areas
- B. new weather patterns
- C. loss of land for agriculture
- D. all of these.

Answer: D



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11. London smog is found in

- A. summer during day time
- B. summer during morning time
- C. winter during morning time
- D. winter during day time.

Answer: C



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12. Photochemical smog is formed in

- A. summer during morning time

B. summer during day time

C. winter during morning time

D. winter during day time.

Answer: B



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13. Which of the following statements is false?

A. London smog is oxidising in nature.

B. London smog contains H_2SO_4 droplets.

C. London smog is formed in winter.

D. London smog causes bronchitis.

Answer: A



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14. Which of the following is true about photochemical smog?

A. It is reducing in nature.

B. It is formed in winter.

C. It is a mixture of smoke and fog.

D. It causes irritation in eyes.

Answer: D



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15. White lung cancer is caused by

A. asbestos

B. silica

C. textiles

D. paper

Answer: A



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16. Ozone layer is present in

A. troposphere

B. stratosphere

C. episphere

D. ionosphere.

Answer: B



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17. Depletion of ozone layer causes

A. blood cancer

B. lung cancer

C. skin cancer

D. breast cancer

Answer: C



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18. Green chemistry refers to

A. chemistry of plants

B. chemistry of green pigments

C. development of chemical products and processes, less harmful to humans

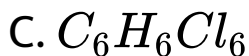
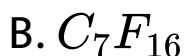
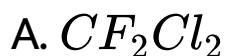
D. chemistry of greenhouse effect.

Answer: C



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19. Ozone in the stratosphere is depleted by



Answer: A



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20. Which one of the following is responsible for depletion of the ozone layer in the upper strata of the atmosphere?

A. Polyhalogens

B. Ferrocene

C. Fullerenes

D. Freons

Answer: D



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21. In Antarctica, ozone depletion is due to the formation of

A. acrolein

B. peroxy acetyl nitrate

C. SO_2 and SO_3

D. chlorine nitrate.

Answer: D



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22. Man dies in an atmosphere of carbon monoxide because it

A. combines with oxygen present in the body to form carbon dioxide

B. increases the blood pressure

C. combines with haemoglobin of blood making it incapable of absorbing oxygen

D. reduces the organic matter of tissues.

Answer: C



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23. The greenhouse effect is caused by

A. CO

B. NO_2

C. CO_2

D. NO

Answer: C



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24. Use of chlorofluorocarbons is not encouraged because

A. they are harmful to the eyes of people who use it

B. they damage the refrigerators and air conditioners

C. they eat away the ozone in the atmosphere

D. they destroy the oxygen layer.

Answer: C



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25. The main agent for polluting the environment is

A. gas

B. plant

C. animal

D. man.

Answer: D



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26. The compound which affects the ozone layer is



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27. The atmospheric gas which cannot produce greenhouse effect is

A. N_2

B. H_2O

C. CO_2

D. O_3

Answer: A



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28. Ionosphere is

A. above ozone layer

B. below ozone layer

C. below 15 km in earth crust

D. none of these.

Answer: A



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29. The ozone layer forms naturally by

A. the interaction of CFCs 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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30. Which of the following is not part of green chemistry?

- A. Photo chemistry
- B. Sono chemistry
- C. Nuclear chemistry
- D. Biochemistry

Answer: C



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**Wb Jee Workout Category 2 Single Option
Correct Type**

1. BOD_5 is

A. waste decomposed in 5 days

B. oxygen used in 5 days

C. microorganisms killed in 5 days

D. dissolved oxygen left after 5 days.

Answer: B



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2. The smog is essentially caused by the presence of

A. O_2 and O_3

B. O_2 and N_2

C. Oxides of sulphur and nitrogen

D. O_2 and H_2

Answer: C



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3. Pick up the correct statement.

A. CO which is a major pollutant resulting from the combustion of fuels in automobiles plays a major role in photochemical smog.

B. Classical smog has an oxidising character while the photochemical smog is reducing in character.

C. Photochemical smog occurs in day time where as the classical smog occurs in the morning hours.

D. During formation of smog the level of ozone in the atmosphere goes down.

Answer: C



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4. Which of the following compounds is used in antiknock compositions to prevent the deposition of oxides of lead on spark plug, combustion chamber and exhaust pipe?

A. Benzene

B. Glycol

C. 1,2-Dibromoethane

D. Glycerol.

Answer: C



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5. About 20 km above the earth there is an ozone layer. Which one of the following statements about ozone and ozone layer is true?

- A. Ozone layer is beneficial to us because ozone cuts out the ultraviolet radiation of the sun
- B. The conversion of ozone to oxygen is an endothermic reaction.

C. Ozone has a triatomic linear molecule.

D. Ozone layer is harmful to us because it cuts out the radiation useful for photosynthesis.

Answer: A



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6. Incomplete combustion of petrol or diesel oil in automobile engines can be best

detected by testing the fuel gases for the presence of

A. carbon dioxide and water vapour

B. carbon monoxide

C. nitrogen dioxide

D. sulphur dioxide.

Answer: B



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7. Which of the following statements is false?

A. The lower the concentration of D.O., the more polluted is the water sample.

B. The tolerable limit of lead in drinking water is 50 ppm.

C. Water is considered pure if it has BOD less than 5 ppm.

D. In COD determination, the pollutants resistant to microbial oxidation are not

oxidised by oxidising agent like



Answer: D



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8. When rain is accompanied by a thunderstorm, the collected rain water will have a pH value

A. uninfluenced by occurrence of
thunderstorm

B. which depends on the amount of dust in
air

C. slightly lower than that of rain water
without thunderstorm

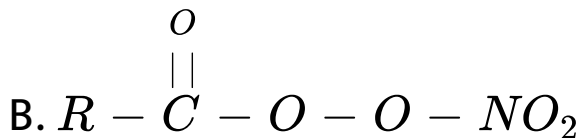
D. slightly higher than that when the
thunderstorm is not there.

Answer: C



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9. Which of the following is not formed at Antarctica ?



C. Type-I clouds

D. Polar vortex

Answer: B



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10. Acid rains are produced by

A. excess NO_2 and SO_2 from burning fossil fuels

B. excess production of NH_3 by industry and coal gas

C. excess release of carbon monoxide by incomplete combustion

D. excess formation of CO_2 by combustion and animal respiration.

Answer: A



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11. Man made sources of air pollution are

A. population increase

B. deforestation

C. war

D. pollen grains.

Answer: A::B::C



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12. Phosphate containing fertilisers cause water pollution. Addition of such compounds in water bodies causes

A. enhanced growth of algae

B. decrease in amount of dissolved oxygen

in water

C. deposition of calcium phosphate

D. increase in fish population.

Answer: A::B



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13. Which of the following are proper methods to dispose sludge?

A. Incineration

B. Dumping

C. Anaerobic digestion by microbes

D. Filtration

Answer: A::B::C



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14. The consequences of global warming may be

A. increase in average temperature of the earth

B. melting of Himalayan glaciers

C. increased biochemical oxygen demand

D. eutrophication

Answer: A::B



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Wb Jee Workout Category 3 One Or More Than One Option Correct Type

1. Peeling of ozone umbrella is due to

A. PAN

B. freons

C. CO_2

D. NO

Answer: B::D



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Wb Jee Previous Years Questions Category 1 Single Option Correct Type

1. Among the followings , the one which is not a " greenhouse gas " , is

A. N_2O

B. CO_2

C. CH_4

D. O_2

Answer: D



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2. Which of the following is present in maximum amount in acid rain ?

A. HNO_3

B. H_2SO_4

C. HCl

D. H_2CO_3

Answer: B



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