

ENVIRONMENTAL CHEMISTRY BASED GENERAL SCIENCE MCQ PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

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Q1. The substance which is not regarded as a pollutant?

- a) CO_2
 - b) O_3
 - c) NO_2
 - d) Hydrocarbons
-

Q2. Which of the following gas causes pollution –

- a) CO
 - b) SO_2
 - c) Both (a) and (b)
 - d) None of the above
-

Q3. Which of the following gases is not a green house gas?

- a) O_3
 - b) CH_4
 - c) CO
 - d) H_2O vapour
-

Q4. A green house

- a) both the above
- b) is that “body” which allows the short wavelength incoming solar radiation to enter in, but does not allow long wavelength outgoing infra-red radiations to escape out

- c) is an enclosure of glass in which plants are kept to protect them from cold air outside
- d) none of the above

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Q5. Which raw material is used in the preparation of soft glass ?

- a) Na_2CO_3 , SiO_2 , CaCO_3
- b) K_2CO_3 , SiO_2 , PbCO_3
- c) K_2CO_3 , SiO_2 , CaCO_3
- d) Na_2CO_3 , SiO_2 , PbO

Q6. Which among the following statements is false?

- a) The main reason for river water pollution is industrial and domestic sewage discharge
- b) Surface water contains a lot of organic matter mineral nutrients and radioactive materials
- c) Oil slick in sea water increases D.O. value
- d) Oil spill in sea water causes heavy damage to fishery

Q7. Living in the atmosphere of CO is dangerous because it

- a) Dries up the blood
- b) Reduces organic matter of tissues
- c) Combined with O_2 present inside to form CO_2
- d) Combines with haemoglobin and makes it incapable of absorbing oxygen

Q8. The greatest affinity for haemoglobin is shown by which of the following :

- a) CO
- b) O_2

- c) NO
 - d) CO₂
-

Q9. When rain is accompanied by a thunderstorm, the collected rain water will have a pH value

- a) slightly higher than that when the thunderstorm is not there
 - b) uninfluenced by occurrence of thunderstorm
 - c) slightly lower than that of rain water without thunderstorm
 - d) which depends upon the amount of dust in air
-

Q10. The pollutants which came directly in the air from sources are called primary pollutants. Primary pollutants are sometimes converted into secondary pollutants. Which of the following belongs to secondary air pollutants?

- a) Hydrocarbon
 - b) Peroxyacetyl nitrate
 - c) CO
 - d) NO
-

Q11. Which of the following is not involved in the formation of photochemical smog?

- a) NO
 - b) SO₂
 - c) Hydrocarbon
 - d) O₃
-

Q12. 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 the earth.
- c) Chlorofluorocarbons are responsible for ozone layer depletion.

d) Acid rain is mostly because of oxides of nitrogen and sulphur.

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Q13. BOD is connected with

- a) organic matter
- b) microbes and organic matter
- c) microbes
- d) None

Q14. CO₂ absorbs some of the that radiates from the surface of Earth to space –

- a) ultraviolet light
- b) heat
- c) ozone
- d) smog

Q15. The layer which reflects radio signals back to earth is –

- a) Ionosphere
- b) Troposphere
- c) Ozone layer
- d) Stratosphere

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Answers to the above questions :

Q1. Answer: (a)

CO₂ is generally not regarded as an pollutant.

Q2. Answer: (c)

Q3. Answer: (c)

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Q4. Answer: (a)

Q5. Answer: (a)

Q6. Answer: (c)

Oil slick in sea water decreases D.O value.

Q7. Answer: (d)

When CO is not ventilated it binds to haemoglobin, which is the principal oxygen-carrying compound in blood; this produces a compound known as carboxyhaemoglobin.

The traditional belief is that carbon monoxide toxicity arises from the formation of carboxyhaemoglobin, which decreases the oxygen-carrying capacity of the blood and inhibits the transport, delivery, and utilization of oxygen by the body.

Q8. Answer: (c)

Haemoglobin has great affinity for NO.

Q9. Answer: (c)

Normal rainwater has a pH of 5.6

Thunderstorm results in the formation of NO and HNO₃ which lowers the pH.

Q10. Answer: (b)

Q11. Answer: (b)

Photochemical smog does not involve SO₂.

Q12. Answer: (b)

The ozone layer acts as a shield and does not allow ultraviolet radiation from the sun to reach earth. It does not prevent infra-red radiation from the sun to reach earth.

Thus option (b) is the wrong statement and so it is the correct answer.

Q13. Answer: (b)

BOD is connected with microbes and organic matter

Q14. Answer: (b)

Q15. Answer: (a)

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