


PREVIOUS HSE QUESTIONS FROM THE CHAPTER “ENVIRONMENTAL CHEMISTRY”

1. Which pollutant in water causes brown mottling of teeth? (1)
2. Define the terms, Biochemical Oxygen Demand (BOD) and Eutrophication. (2) [August 2018]
3. Name the type of smog generally formed during cool and humid climate. (1)
4. Write any two applications of green chemistry in day-to-day life. (2) [March 2018]
5. Ozone layer plays a significant role in protecting earth from harmful UV radiation.
 - a) What is mean by ozone layer depletion?
 - b) What are the effects of ozone layer depletion? (3) [July 2017]
6. Environmental pollution is the effect of undesirable changes in surroundings that have harmful effects on plants, animals and human beings.
 - a) Explain the adverse effect of global warming. (2)
 - b) Choose the one which is not a component of photochemical smog.
 - i) NO_2 ii) O_3 iii) SO_2 (1) [March 2017]
7. The phenomenon of global warming is due to green house effect.
 - a) What is green house effect?
 - b) What are the consequences of green house effect? (3) [September 2016]
8. a) Match the following: (2)

A	B
CFC's	Blue baby syndrome
Oxides of nitrogen	Kidney damage
Cadmium	Eutrophication
Nitrates	Ozone depletion
	Red haze in the traffic



- b) Write any contributions of green chemistry in day to day life. (1) [March 2016]
9. 'Smog' is the most common example of air pollution.
 - a) The smog that occurs in cool humid climate is called (1)
 - b) Explain the cause of 'Green House Effect'. (2) [October 2015]
10. The Taj Mahal in India has been affected by 'acid rain'. Explain the causes and harmful effects of acid rain. (3) [March 2015]
11. a) Carbon monoxide is one of the most serious air pollutants. How does it pollute the atmosphere? (2)
b) Give any two applications of Green Chemistry in day-to-day life. (1) [August 2014]
12. There are international standards regarding drinking water. Write any three among them. (3) [March 2014]
13. Suppose that your teacher asks you to conduct a seminar on ozone depletion. Give any three harmful effects of ozone depletion that you would present in the seminar. (3) [September 2013]
14. Pollution of water originates mainly from human activities.

- a) What do you mean by the term PCB? (1)
 b) How do chemical pollutants cause eutrophication? (1)
 c) Mention the adverse effects of high fluoride concentration in drinking water. (1) [March 2013]
15. a) Write any two differences between classical smog and photochemical smog. (2)
 b) How the Green Chemistry is useful in bleaching of paper? (1) [September 2012]
16. Particulate pollutants are the minute solid particles or liquid droplets in air.
 a) Suggest two examples for non-viable particulate pollutants. (1)
 b) Write any two adverse effects of photochemical smog. (2) [March 2012]
17. Ozone in the stratosphere is produced by the help of ultraviolet radiations. It protects us from harmful ultraviolet radiations.
 a) Write equation for the formation of ozone in stratosphere. (1)  **HSSLive.IN**
 b) Explain with chemical equation, the destruction of ozone by chlorofluoro carbons causing ozone hole. (2) [October 2011]
18. Organic matters such as leaves, grass, trash etc. are major pollutants in water.
 a) How do organic pollutants affect aquatic life? (2)
 b) What is Biological Oxygen Demand (BOD)? (1) [March 2011]
19. When the pH of the rain water drops below 5.6, it is called acid rain.
 a) What are the major compounds responsible for acid rain? (1)
 b) What are the harmful effects of acid rain? (2) [September 2010]
20. Atmospheric pollution increases the global average temperature and the phenomenon is called global warming.
 a) What are the major gases which contribute towards global warming? (1)
 b) What can we do to reduce global warming? (2) [March 2010]
21. a) What is mean by the green house effect? (1½)
 b) Explain what is mean by green house gases? (1½) [March 2009]
22. How do pollutants that reach the stratosphere affect life on earth? (2) [June 2008]
23. 'Use of DDT pollutes the environment.' Justify. (2) [February 2008]

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