

## ENVIRONMENTAL CHEMISTRY

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### **ONE MARK QUESTIONS**

- 1 Define environmental pollution.
- 2 Carbon monoxide is more harmful pollutant than carbondioxide. Explain
- 3 Name the pollutant gas that causes stiffness and fall off flower buds in plants.
- 4 Mention the effect of increased concentration of carbondioxide in atmosphere.
- 5 Why classical smog is also called reducing smog.
- 6 Describe 'blue baby' syndrome.

### **TWO MARK QUESTIONS**

- 1 List the gases responsible for green house effect.
- 2 Mention the reasons how acid rain affect the ancient statues and monuments.
- 3 Define pesticides and herbicides with examples
- 4 Discuss the harmful effects of photochemical smog and how can they be controlled.
- 5 Discuss the consequences of ozone hole.

### **THREE MARK QUESTIONS**

- 1 Define the following
  - (a) Global warming
  - (b) Eutrophication
  - (c) Acid rain
- 2 Explain the term green chemistry. How will it help decrease environmental pollution ?
- 3 Write the use of green chemistry in the following day to day life processes for decrease in pollution :
  - (a) Dry cleaning of clothes
  - (b) Bleaching of paper
  - (c) Synthesis of chemicals
- 4 What do you understand by Biological oxygen demand chemical oxygen demand ?How are they determined?

### **VALUE BASED QUESTIONS (FOUR MARKS)**

- 1 The average human being requires nearly 12-15 times more air than food. So even small amount of pollutants in air becomes significant compared to similar level in food. Pollutants

can be degradable like discarded vegetables and non degradable like DDT, plastic materials, heavy metals ,nuclear wastes etc .Mrs. Sharma puts domestic wastes in municipal corporation of Delhi (MCD) dustbins. She puts biodegradable wastes in one dustbin and recyclable wastes in other dustbin. But Mrs.Verma throws away all types of wastes outside her house which create lot of problems for other residents.

- i. Why MCD should separate biodegradable and non biodegradable wastes?
  - ii. What should be done with non –biodegradable wastes?
  - iii. Why has government banned plastic in Delhi?
  - iv. What are the values possessed by Mrs.Sharm
2. On a visit to a farmhouse Ramesh found that, the farmer used excessive pesticides on their farm. The products of their farm was being used as a foodfor rearing fishes. Ramesh was shocked to know that the fish of their farm were not fit for human consumption.

Answer the following questions:

- i) What can be the possible reason for fish to be declared unfit as human food?
  - ii) How can you explain the cause of this situation to develop?
  - iii) What suggestion you will give for future?
  - iv) What are the values associated with Ramesh?
- 3 After entering a closed coal mine area, Ravi found difficulty in breathing, also felt nausea. His friend Sonu immediately took him to the nearby hospital.
- i) What could be the reason for Ravi's sickness?
  - ii) What is the name of the compound formed when the above gas combines with blood?
  - iii) As a citizen of the country what should be Sonu's course of action further?
  - iv) What are the values associated with Sonu?