



(Following Paper ID and Roll No. to be filled in your Answer Book)

**PAPER ID : 154801**

Roll No.

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## B. Tech.

(SEM. VIII) THEORY EXAMINATION, 2014-15  
ENVIRONMENTAL BIOTECHNOLOGY

Time : 3 Hours]

[Total Marks : 100

- 1 Attempt any two parts of the following. **10x2=20**
- (a) Describe an environmental friendly method to profitably dispose off human waste and cattle waste.
  - (b) Describe the disadvantages of chemical fertilizers and their role in causing pollution.
  - (c) What steps can be taken to reduce pollution due to particulate matter from industries?
- 2 Attempt any two parts of the following. **10x2=20**
- (a) What do you understand by pollutant? What are the various categories of pollutants ?
  - (b) What do you mean by pollution? How could pollution be harmful for the environment?
  - (c) How could we reduce the water pollution? Name any three devices that control the water pollution. Explain functioning of any one.

- 3** Attempt any two parts of the following. **10x2=20**
- (a) Why was CNG introduced as a fuel for automobiles in a city like Delhi? Has it made any difference?
  - (b) What is a medical waste? Why is it called hazardous waste? What is the safe way to dispose off medical waste?
  - (c) What are the causes and effects of thermal pollution on the life of aquatic animals like fish? What measures would you suggest to prevent thermal pollution?
- 4** Attempt any two parts of the following. **10x2=20**
- (a) What is noise and in which units it is measured? State the harmful effects of noise pollution. What are the measures to reduce noise pollution?
  - (b) What is primary treatment? What is removed from water effluents during primary treatment? Mention the advantages of primary treatments.
  - (c) Why are plastic bags a big environmental nuisance? What are the potential alternatives?
- 5** Write short notes on any four. **5x4=20**
- (a) CFC
  - (b) Waste
  - (c) Bioreactor
  - (d) Soil pollution
  - (e) BOD and COD
  - (f) Algal blooms.