

Total No. of Questions : 8]

SEAT No. :

**P1665**

**[5130]-23**

**[Total No. of Pages : 2**

**M.Sc.**

**ENVIRONMENTAL SCIENCE**

**ENV - 203 : Environmental Pollution - I - Water & Soil  
(2008 Pattern) (Semester - II)**

***Time : 3 Hours]***

***[Max. Marks : 80***

***Instructions to the candidates:***

- 1) Answers to the two sections should be written in separate books.***
- 2) Neat diagrams must be drawn wherever necessary.***
- 3) Figures to the right indicate full marks.***
- 4) All questions carry equal marks.***

**SECTION - I**

***Q1)*** Solve any two from the following:

- a) What are the objectives of water quality monitoring?
- b) Explain the types of sampling sites.
- c) What is the role of society in Maintaining the health of aquatic ecosystem.

***Q2)*** Attempt any two from the following:

- a) Draw diagram of oxygen sag curve and explain it briefly.
- b) Explain why and how Eutrophication is called as Aging of lakes.
- c) What are algal blooms? What are its impacts?

***Q3)*** Solve any two from the following:

- a) Write an account of water pollution from Coal Mines and Coal Processing and its impact on surroundings.
- b) Explain the ways to deal with oil spills.
- c) Elaborate on water quality parameters.

***P.T.O.***

**Q4)** Write short notes on any two:

- a) Toxin free lifestyle and river water quality.
- b) Minamata Disease.
- c) Trophic State.

## **SECTION - II**

**Q5)** Attempt any two of the following:

- a) Give the appropriate methods of soil sampling.
- b) Describe the environmental and health problems caused by the use of pesticides.
- c) Describe in detail essential feature of sanitary Land fill.

**Q6)** Answer Any Two of the following:

- a) Draw and discuss working of Semi-conductor detector.
- b) Classify the solid waste and add a note on its disposal by decentralise methods.
- c) What are the sources of radiation in Environment. Explain in brief the effects of radiation.

**Q7)** Attempt any two of the following:

- a) Explain the concept of Integrated Pest Management.
- b) Draw schematic diagram of G.M. Counter. Explain its working in detail.
- c) What is Mining? Explain effects of Mining on soil.

**Q8)** Write short notes on any two:

- a) Three 'R' Principle.
- b) Organic Farming.
- c) Polluter Pay Principle.

