

19. (a) Explain soil pollution by fertilizers and pesticides.

Or

- (b) Discuss the biochemical effects of chromatin arsenic and nickel.

20. (a) How wastes are reused and further used?

Or

- (b) Write notes on :

- (i) Conservation of forester
- (ii) Voluntary a services
- (iii) Some restoration case stories.

Reg. No. :

Code No. : 7152

Sub. Code : C 1 AC

M.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2010.

First Semester

Chemistry

Elective – ENVIRONMENTAL CHEMISTRY

(For those who joined in July 2008 and afterwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

1. What are different types of Eco System? Give examples.
2. What do you mean by nitrogen fixing bacteria?
3. Account for the -ive and +ive lapsa rate.
4. What is meant by El- Nino phenomenon?
5. What do you mean by Eutrophination?
6. Define characteristics of wastewater.

7. What are macro nutrients in soil?
8. Mention any two biochemical effects of Hg.
9. Write about Environment Act, 1986.
10. Give notes on Environment Day.

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) What are the components of an ecosystem?
Or
(b) Explain carbon cycle and illustrate.
12. (a) What is meant by acid rain? Explain its ill-effects?
Or
(b) What are green house gases? How do it produce global warming?
13. (a) Sketch and explain hydrological cycle.
Or
(b) Discuss water quality status of some Indian rivers.
14. (a) Discuss biochemical effects of lead and cadmium.
Or
(b) Explain treatment and abatement procedures for soil pollution.

15. (a) How are wastes disposed and managed by chemical methods?

Or

- (b) Discuss Indian effort in environmental protection.

PART C — (5 × 8 = 40 marks)

Answer ALL the questions, choosing either (a) or (b).

16. (a) Discuss different types of environmental segments.
Or
(b) Sketch and explain sulphur and phosphorus cycles.
17. (a) Discuss the sources, effects and control of air pollutants.
Or
(b) Discuss various air pollution episodes viz, Bhopal and Chernobyl Disasters.
18. (a) What are the sources and effects of water pollution? How can it be controlled?
Or
(b) Discuss some case studies of water pollution.