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Roll No. A204651202

UNDER GRADUATE PROGRAMMES

SECOND SEMESTER END TERM EXAMINATION :
APRIL – 2013

ENVIRONMENTAL STUDIES – II

Time : 3 Hrs.

Maximum Marks : 70

Note: *Attempt questions from all sections as directed.*

SECTION – A (30 Marks)

Attempt any 5 questions.

Each question carries 6 marks.

1. Illustrate and explain the green house effect? What are green house gases? Is it necessary for the sustenance of life or not?
2. List some of the major harmful effects of population explosion.
3. What are different types of solid waste? Explain some of the important solid waste management (SWM) techniques with respect to waste minimization.
4. What is nuclear pollution? Briefly discuss the effects and control of radioactive hazards.

P.T.O.

5. What do you understand by thermal pollution? Discuss various effects and control of thermal pollution.
6. Elaborate different levels of treatment of water in a water treatment plant (WTP).

SECTION - B (20 Marks)

Attempt any two questions.

Each question carries 10 marks.

7. Write a short note on any four :
 - (i) Urban sprawl
 - (ii) Cyclone Separator
 - (iii) Biochemical Oxygen Demand (BOD)
 - (iv) Carrying capacity
 - (v) Electrostatic Precipitator (2.5×4=10)
8. Write short note on any four :
 - (i) Acid Rain
 - (ii) Tsunami
 - (iii) Air (Prevention and Control of pollution) Act
 - (iv) Montreal Protocol
 - (v) Human values (2.5×4=10)

9. (a) List some of the major urban problems related to energy.
- (b) Explain the role of information technology in human health. (5×2=10)

SECTION - C (20 Marks)

(Compulsory)

10. Read following case study and answer the questions given at the end of the case study.

Marine Pollution in Tamil Nadu – A case study

Industrial pollution has threatened the natural habitats of pearls in the pearl banks of Tuticorin coast in the Gulf of Mannar. It has affected fish and other organisms as far as 30 kms south of Tuticorin due to effluents released from chemical industries. Tannery wastes have caused the pollution of coastal waters from Chennai to Vedaranyam. The effect of diversity of phytoplankton ecology of mangrove estuaries of Tuticorin is greatly affected by industrial effluents. The Chennai coastal waters showed high levels of pesticides like DDT, lindane, endosulphan and heptachlor. The bioaccumulation of these pesticides in marine organisms could pose major health hazards.

P.T.O.

- (a) Explain in detail various sources of marine pollution. (5)
- (b) What are 'Red Tides'? How they affect the marine life? (3)
- (c) Discuss in detail the physical, chemical and biological control measures for marine pollution? (7)
- (d) What are pesticides and weedicides? How do they affect our environment? (5)