

M.E. First Semester (Mechanical Engineering (Thermal Engg.)) (New-CGS)
13512 : Elective - I : Environmental Pollution Control : 1 MTE 5

P. Pages : 2

Time :



AU - 3366

Max. Marks :

SECTION - A

1. a) What are Primary and Secondary air Pollutants? Give examples. 7
- b) What is acid rain? How is it caused? What are steps needed to control acid rain? 7

OR

2. a) Briefly explain the causes and effects of episodes of notable air pollution disasters in the world. 7
- b) Explain the effects of Photochemical smog on plants. 7
3. a) Explain point and non point sources of water. 6
- b) Discuss how the symbiotic relationship between algae and bacteria is useful in treatment of sewage in an oxidation pond. 7

OR

4. a) What are common effluent treatment plants (CETPs)? 6
- b) List and explain the disposal and recycling options for the various components of MSW. 7
5. a) Describe the thermal processes used in solid waste treatment? Discuss the merits and demerits of these processes. 7
- b) What are the common primary treatment techniques for sewage? Explain. 6

OR

6. a) Discuss various equipments used in collection and disposal of solid waste. 8
- b) How are solid wastes classified? What are the characteristics of solid wastes. 5

SECTION - B

7. a) What is radio-active pollution? Discuss the damages caused to a biological system by radiations. 7
- b) What are the physiological and psychological effects of noise? 7

OR

8. a) Explain the effects of oil pollution on the oceans. 7
b) Explain the concepts of source, path, receiver in the control of noise pollution. 7
9. Discuss the various pollutions from thermal power plants and their effects on society in detail. 13

OR

10. Define thermal pollution. Discuss damages caused by heated effluents on aquatic system. Suggest suitable control measures to control combat thermal pollution. 13
11. Explain with a flow diagram the following:- 13
i) Power generation from MSW combustible components.
ii) Biogasification of organic components of MSW.

OR

12. List the causes, effects and management options for the following environmental issues. 13
i) Air pollution
ii) Water pollution
iii) Hazardous Waste Management
iv) Municipal solid waste management
v) Land degradation

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