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Sr. No. of Question Paper : 1751

F-8

Unique Paper Code : 234-3803

Name of the Paper : Environmental Engineering – Allied Course

Name of the Course : B.TECH. (COMPUTER SCIENCE)

Semester : VIII

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt any five questions.
3. All questions carry equal marks.

1. Describe the characteristics and collection system for solid waste management. What are the challenges for solid waste management in an industry? (15)

2. Differentiate between any three of the following : (3×5=15)

(i) Sedimentation and Filtration technology

(ii) Biological Oxygen Demand and Chemical Oxygen Demand

(iii) Hazardous and Non-hazardous waste

(iv) Aerobic and Anaerobic treatment processes

P.T.O.



3. Write explanatory notes on any **three** of the following :
(3×5=15)
- (i) Hazardous waste management
 - (ii) Principle of waste prevention
 - (iii) Chemical waste
 - (iv) Air pollution dispersion
4. Give a detailed account of different methods used for waste water treatment. (15)
5. (a) Explain the basic design and operation of a sewage treatment plant. (10)
- (b) Discuss briefly the methods used to manage the emission from moving sources of air pollution. (5)
6. Explain the design and functioning of a sanitary landfill. Discuss the advantages and disadvantages of sanitary landfill for waste management.. (15)
7. Elaborate different standards and guidelines to measure the quality of air and water. (15)
8. (a) Elaborate the concept of material balance to solve environmental engineering problems. (5)
- (b) What do you understand by air pollution control cost ? Discuss the role of environmental engineers to reduce the pollution cost for industrial development. (10)
- (2200)