

ONE TIME EXIT SCHEME

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Seventh Semester B.E. Degree Examination, April 2018
Environmental Engineering - II

Time: 3 hrs.

Max. Marks:100

Note: 1. Answer any FIVE full questions, selecting atleast TWO questions from each part.
2. Draw neat sketches wherever necessary.

PART - A

1. a. Explain "Combined system" and "Separate system" of sewerage giving their merits and demerits. (08 Marks)
 b. Explain "Dry weather Flow (DWF)" and explain its variations patterns. Explain the factors on which DWF depends. (12 Marks)
2. a. What are the factors that govern the selection of sewer materials? List the types of materials used for sewer construction. (08 Marks)
 b. Explain the concept of self cleaning velocity. (04 Marks)
 c. Design a circular sewer to serve a residential colony in a town with the following data :
 Area of the colony : 40 Hectares : Population : 80,00 :
 Per capita consumption : 220 Lpd : Critical rainfall intensity : 5cm/hr :
 Available Ground slope : 1 in 900. (08 Marks)
3. a. Explain the different shapes of sewers and their applications on the field, with neat sketches. (10 Marks)
 b. Explain with neat sketches of the following : (10 Marks)
 i) Manhole ii) Grease & Oil traps.
4. a. Explain the concept of BOD & COD, giving their ability in the waste water management. List their limitations. (12 Marks)
 b. The following observation were made in the laboratory on 2% dilution of waste water :
 D.O. of aerated dilution water = 7.0mg/lit.
 D.O. of diluted sample after 5 days = 2.0 mg/c lit.
 D.O. of original sample of waste water = 0.5mg/liter. Calculate the deoxygenation rate constant of 20°C on 0.23. (08 Marks)

PART - B

5. a. Define Self purification. Explain the factors involves in self purification of Stream River. (04 Marks)
 b. What is Oxygen sag curve? Explain with neat sketches. (04 Marks)
 c. Explain the various zones of purification, with neat sketch. (04 Marks)
 d. Write short notes on : i) Sewage sickness ii) Sewage farming. (08 Marks)
6. a. Explain with flow diagram, sewage treatment scheme for a large city. Indicate the different options of secondary treatment. (10 Marks)
 b. Explain the working of a 'grit chamber', with a neat sketch. (05 Marks)
 c. Discuss with a neat sketch any one method of disposal of septic tank effluent. (05 Marks)



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