

Roll No.

UNIT – I

24381

**B. Tech 6th Semester (Civil)
Examination – May, 2018**

SEWAGE AND SEWAGE TREATMENT

Paper : CE-308-F

Time : Three Hours] [Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt five questions in total at least one from each Section. Question No. 1 is compulsory. All questions carry equal marks.

- 1. (a) What is meant by hydraulic equivalent section ? Give relation between circular section and egg shaped section.
- (b) What is the importance of seeding in BOD test ?
- (c) Define the principle of Grit Chamber.
- (d) What are the objectives of providing sewage treatment ?
- (c) What is photochemical smog ? 5 × 4 = 20

- 2. (a) Design a sewer to sewer a population of 36000; the daily per capita water supply allowance being 135 liters of which 80 percent find its way into the sewer ? The slope available for the sewer to be laid is 1 in 625 and the sewer should be designed to carry four times the dry weather flow when running full. What would be the velocity of flow in the sewer when running full ? 10
- (b) Write the laying procedure for sewers. 10
- 3. (a) Write the test for sewer required for straightness. 10
- (b) Enlist the sanitary fittings required for a building. 10

UNIT – II

- 4. (a) Discuss the Indore method of sewage disposal. 10
- (b) What do you understand self purification ? Draw oxygen sag curve. 10
- 5. (a) What is sludge digestion process and what are the factors affecting it ? 10
- (b) Explain the test for check the characteristics of sewage. 10

UNIT - III

6. (a) Distinguish between LRTF and HRTF. 10
(b) Why aeration is required in ASP ? What are its methods ? 10
7. (a) Write the working of aeration lagoons. 10
(b) Discuss the principle and working of Imhoff tank. 10

UNIT - IV

8. (a) What is noise mapping? Discuss it. 10
(b) Write the effects of noise in residential and Industrial buildings. 10
9. (a) What is meant by smog ? Discuss its causes and effects. 10
(b) Explain stable and unstable atmosphere. 10

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