

Roll No. ....

**24381**

**B. Tech. 6th Semester (Civil)**

**Examination – May, 2019**

**SEWERAGE 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 any *five* questions in all, selecting *one* question from each Unit. Question Number 1 is *compulsory*. All questions carry equal marks.

1. Explain : 20
- (a) System of sewage
  - (b) Self cleansing velocity
  - (c) BOD and COD
  - (d) Digestion tank

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P. T. O.

**UNIT – I**

- 2. What **are** the different kind of pipe used in sewage works, explain various merits and demerits ? Find the velocity and discharge of a stoneware pipe flowing full of 0.5 m dia laid in gradient 1:300. 20
- 3. Describe the testing of sewage. Also explain various valve and fixture with diagram. 20

**UNIT – II**

- 4. Explain the various factor affecting sludge digestion and method of sludge disposal. 20
- 5. (a) Explain the various term BOD ,COD, TOC , D.O. 10  
(b) Sewage sludge with volume containing certain moisture content  $P_1\%$ . What will be the volume of this sludge if its moisture content is reduced to  $p/2\%$  10

**UNIT – III**

- 6. Describe the principle involved in the design and construction of following :  
Grit chamber, Percolating filter, skimming tank. 20

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7. Explain the secondary treatment with diagram. Also explain the advantage and disadvantage of trickling filter. 20

**UNIT – IV**

8. What do you mean by noise pollution and what are the different methods to reduce noise pollution? 20
9. What is the effect of air pollution in the environment? How to disperse the air pollution in the environment? Explain. 20

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