

6622

## BOARD DIPLOMA EXAMINATIONS

OCT/NOV-2019

DCE – FIFTH SEMESTER

ENVIRONMENTAL ENGINEERING

Time: 3 hours

Max. Marks: 80

PART – A

3 X 10 = 30

- Instructions:**
1. Answer **all** questions.
  2. Each question carries **Three** Marks.
  3. Answer should be brief and straight to the point and should not exceed Five simple sentences.

1. State different methods of forecasting population.
2. Define (a) Drawdown. (b) Circle of influence.
3. Define Sedimentation ? State the methods of Sedimentation.
4. Sketch the overall layout of water treatment plant indication different stages.
5. List out three objects of treatment of water ?
6. State any six requirements of good distribution system.
7. Define (a)Sewage (b)Refuse (c)Garbage.
8. Draw the sketch of catch basin.
9. Define (a)C.O.D (b)B.O.D
10. State classification of traps according to use.

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**PART – B**

**5 X 10 = 50**

**Instructions:** 1. Answer any **Five** questions  
2. Each question carries **TEN** Marks.  
3. Answer should be comprehensive and Criteria for Valuation is the content but not the length of the answer.

11. Explain (a) Infiltration wells (b) Infiltration galleries.
12. Explain the Construction , Working and Operation of Slow sand Filter with a neat sketch.
13. Explain methods of supply of water in buildings stating advantages and disadvantages.
14. What is Dry weather flow ? State and Explain the factors affecting Dry weather flow.
15. Explain the method of laying the sewers as per given alignment.
16. Explain Activated sludge process.
17. Explain various methods of sludge Disposal.
18. Explain the methods of tests conducted for testing of sanitary fittings.

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