

6622

BOARD DIPLOMA EXAMINATIONS
SEPTEMBER/OCTOBER-2020
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 any three objectives of Water Supply Scheme.
2. Define (a) Aquifer (b) Aquiclude.
3. List the Methods of Chlorination.
4. Define Hardness ? What are the causes for different types of Hardness ?
5. Define Coagulation ? Name any four Coagulants.
6. State the necessity of service reservoir.
7. Define (a) Sewage (b) Sullage (c) Garbage.
8. Draw a neat Sketch of Manhole.
9. List any three Objectives of treatment of sewage ?
10. Define (a) Soil pipe (b) Waste pipe (c) Vent pipe.

[cont.,]

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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 different joints used for connecting pipes with sketches.
12. Compare Slow sand Filters and Rapid sand filters.
13. State any 10 principles to be observed while laying a pipelines within the permises of building.
14. (a) State the Objective of Sewerage Works ?
(b) State factors affecting Dry Weather Flow.
15. Explain different shapes of cross sections of sewers with sketches.
16. (a) Draw the flow diagram of Activated Sludge process.
(b) Explain the Working Skimming Tank with a neat sketch.
17. Explain the construction and working of Septic Tank with a neat sketch.
18. Explain the layout of sanitary fittings to house drainage arrangement in a single storaged building with a sketch.

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