



C14-C-502

4619

BOARD DIPLOMA EXAMINATION, (C-14)
SEPTEMBER/OCTOBER - 2020
DCE—FIFTH SEMESTER EXAMINATION
ENVIRONMENTAL ENGINEERING—I

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=30

Instructions : (1) Answer **all** questions.
(2) Each question carries **three** marks.
(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. What is meant by acid rain?
2. What is the necessity of forecasting population?
3. State any six factors affecting per capita demand.
4. Define (a) yield of well, (b) circle of influence and (c) draw down.
5. List out various surface and subsurface sources of water.
6. Define (a) *E-coli* and (b) MPN.
7. List the methods of chlorination.
8. List any three objects of testing of water.
9. What is the necessity of storage reservoir?
10. Define (a) water main, (b) distribution pipe and (c) air gap.

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PART—B

10×5=50

Instructions : (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. State and explain the various demands or requirements of water consumption.
12. Explain procedure of laying of pipeline.
13. Explain infiltration well with the help of neat sketch.
14. Explain the construction and working of a slow sand filter with the help of a neat sketch.
15. Explain the various types of sedimentation tanks.
16. State the different distribution systems and explain any two of them with neat sketches.
17. Draw the sketch of general layout of water supply arrangements for single-storey building and write details.
18. Explain the different layouts of distribution system in detail with sketches.

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