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C16-C-503

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BOARD DIPLOMA EXAMINATION, (C-16)

MAY/JUNE—2023

DCE - FIFTH SEMESTER EXAMINATION

ENVIRONMENTAL ENGINEERING

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 per capita demand?
2. State the classification of sources of water.
3. What is sedimentation?
4. Write any three requirements of good disinfectant.
- * 5. List out three objects of filtration.
6. State the classification of service reservoirs.
7. List any three factors affecting dry weather flow.
8. List the different sewer appurtenances.
9. Write any three physical characteristics of sewage.
10. What is (a) soil pipe and (b) waste pipe?

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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 criterion for valuation is the content but not the length of the answer.

11. Explain any two types of pipe joints along with sketch.
12. Explain the different methods of aeration.
13. Explain the different layouts of distribution system with a neat sketch.
14. What are the different sewerage systems. Explain with its merits and demerits.
15. Explain (a) ordinary manhole and (b) drop manhole with a neat sketch.
16. List the different principles of treatment of industrial wastes and explain any two methods.
17. Explain the construction and operation of a septic tank with a sketch.
18. State the requirements of good drainage system for a building.

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