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C16-C-503

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BOARD DIPLOMA EXAMINATION, (C-16)

JUNE/JULY—2022

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. List various demands for which water is required.
2. State the requirements of a good pipe joint for water pipes.
3. Define hardness. How hardness is caused to the water?
4. Define coagulation. Name any four coagulants.
- * 5. List various methods of chlorination.
6. Define (a) service pipe and (b) distribution pipe.
7. Define (a) sewage, (b) sullage and (c) refuge.
8. List the various shapes of sewers.
9. Write any four objectives of treatment of sewage.
10. Define (a) soil pipe, (b) vent pipe and (c) 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 the reservoir intake with a neat sketch.
12. Describe the working and operation of slow sand filter with a neat sketch.
13. Explain different types of distribution systems with sketches.
14. What is meant by combined system? Write its merits and demerits.
15. Explain about manhole with the help of a sketch.
16. Explain the activated sludge process.
17. Explain the construction and operation of a septic tank.
18. Explain the procedure involved in the inspection, testing and maintenance of sanitary fittings of a building.

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