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BOARD DIPLOMA EXAMINATION, (C-14)

JUNE—2019

DCE—SIXTH SEMESTER EXAMINATION

ENVIRONMENTAL ENGINEERING—II

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. State any three objectives of sewage disposal works.
2. List any six requirements of good surface drains.
3. Mention different materials used for sewers.
4. List any six sewer appurtenances on a sewer line.
5. Draw a neat sketch of catch basin and mention its components.
6. Define strength of sewage.
7. State the functions of grit chambers in sewage treatment plant.
8. Define the terms (a) soil pipe, (b) waste pipe and (c) vent pipe.
9. State any three factors affecting production of bio-gas.
10. Define the term air pollution. State the natural sources of air pollution.

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PART—B

5×10=50

Instructions : (1) Answer *any five* questions.
(2) Each question carries **ten** marks.
(3) Answers should be comprehensive and the criteria for valuation are the content but not the length of the answer.

11. Compare conservancy system with water carriage system.
12. Explain the construction and working of Shone's ejector with a neat sketch.
13. Explain the principle and operation of primary sedimentation tank.
14. Explain the working of a trickling filter with a neat sketch.
15. Explain the methods of sanitary landfill and incineration of solid waste disposal.
16. State the requirements of good drainage system in buildings..
17. Explain the construction and working of KVIC model bio-gas plant with a sketch.
18. Explain the working of a spray chamber with the help of a sketch.

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