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**BOARD DIPLOMA EXAMINATION, (C-09)
OCT/NOV—2018
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. List any three factors affecting dry weather flow.
2. What is the necessity of an inlet in sewerage system?
3. Distinguish between B.O.D and C.O.D.
4. What do you mean by sludge digestion?
5. List any three objectives of treatment of sewage.
6. Distinguish between composting and incineration.

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7. List any six ^{*} sanitary fittings used in house drainage.
8. List any three factors affecting biogas production.
9. What is meant by zoning?
10. What are different types of wet collection device?

PART—B

10×5=50

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

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

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

11. Explain different systems of sewage collection and disposal.
12. (a) List the requirements of a good surface drain.
(b) Design a separate sewer running full which receives only storm water from a water shed of area 50 hectares. The duration of storm is 15 minutes. The impermeability factor of the total area is 0.50. The coefficient of rugosity $n = 0.013$ and $i = 0.01$.
13. (a) List different sewer appurtenances used.
(b) Explain the construction and working of flushing tank with the help of a neat sketch.
14. Explain the method of removal of grit in a grit chamber with the help of a sketch.

15. (a) What do you mean by activated sludge process? Draw the flow diagram.
- (b) What is meant by sewage sickness and how can it be prevented?
16. Explain, in detail, the three types of bin system of collecting the refuse.
17. What is meant by composting? Explain the Bangalore method of composting.
18. (a) Explain the construction of pit privy with the help of a neat sketch.
- (b) List the methods of control of air pollution.
