



c09-c-605

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BOARD DIPLOMA EXAMINATION, (C-09)

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 three objectives of sewage disposal.
2. List six component parts of sewage pumping station.
3. List any three physical characteristics of sewage.
4. Draw the flow chart of sewage treatment plant.
5. State three functions of screens.
6. List three demerits of uncontrolled dumping.
7. Define (a) soil pipe, (b) waste pipe and (c) vent pipe.
8. List various types of rural sanitary latrines.
9. State the effects of air pollution on physical properties of atmosphere.
10. Draw neat sketch of louver collector.

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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. (a) Define self cleaning velocity. 3
(b) Give any seven comparisons between three sewerage systems.
12. Design a sewer which receives combined sewage from a small district at the rate of 800lt/sec. The sewer runs half full. Assume the value of coefficient of rugosity as 0.013 and bed slope of 1 in 100.
13. (a) State the functions and location of manhole. 5
(b) Draw the neat sketch of drop manhole. 5
14. Explain construction and working of trickling filter with neat sketch.
15. List various sludge disposal methods and explain any three in detail.
16. Explain three types of bin collection system of solid waste.
17. State the requirements of a good building drainage system.
18. (a) Draw neat sketch of Janata Biogas plant. 5
(b) Explain the method of controlling air pollution by stacks. 5

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