

c09-c-605

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BOARD DIPLOMA EXAMINATION, (C-09)

MARCH/APRIL—2021

DCE - SIXTH SEMESTER EXAMINATION

ENVIRONMENTAL ENGINEERING—II

Time : 3 hours]

[Total Marks : 80

PART—A

4×5=20

- Instructions :** (1) Answer *any five* questions.
(2) Each question carries **four** marks.
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. Define (a) sullage and (b) sewage.
2. List the various shapes of sewers.
3. Define BOD.
4. Define (a) equalization and (b) neutralization.
5. List any six methods of sludge disposal.
6. What are the components of refuse?
7. Define (a) soil pipe, (b) waste pipe and (c) vent pipe.
8. State the advantages of rural sanitation.
9. What is meant by smog?
10. Draw neat sketch of louver collector.

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[Contd...

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PART—B

15×4=60

- Instructions :** (1) Answer *any four* questions.
(2) Each question carries **fifteen** marks.
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. Compare the three systems of sewerage.
12. Design a sewer which receives combined sewage from a small district at the rate of 800 lt/sec. The sewer runs half full. Assume the value of coefficient of rugosity as 0.013 and bed slope of 1 in 100.
13. Explain the manhole with the help of a neat sketch.
14. Explain the principle and operation of primary sedimentation tanks.
15. List various sludge disposal methods and explain any three in detail.
16. Describe the Indore method of composting.
17. Explain the sanitary land fill method to dispose solid waste.
18. What are the duties of site engineer in construction industry?

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