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BOARD DIPLOMA EXAMINATION, (C-14)

MARCH/APRIL—2021

DCE - SIXTH SEMESTER EXAMINATION

ENVIRONMENTAL ENGINEERING - II

Time : 3 hours ]

[ Total Marks : 80

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**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. Draw any three types of surface drains.
2. List any three factors affecting dry weather flow.
3. List any two merits and two demerits of circular sewer.
4. List any six component parts of a sewage pumping station.
5. Mention different materials used for sewers.
6. Define C.O.D and B.O.D.
7. State the functions of screens in sewage treatment plant.
8. Define (a) soil pipe and (b) waste pipe.
9. What is meant by Vermi composting?
10. Define air pollution. State the effect of air pollution.

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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. Explain any two types of surface drains with their merits and demerits.
12. Explain the component parts of a pumping station 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. What is meant by composting? Explain Indore method of composting.
16. State the requirements of good drainage system in buildings.
17. Draw the working of Janata model bio-gas plant with neat sketch.
18. What are the duties of site engineer in construction of a building?

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