

**4717****BOARD DIPLOMA EXAMINATION, (C-14)****MARCH /APRIL-2019****DCE - SIXTH SEMESTER EXAMINATION****ENVIRONMENTAL ENGINEERING - II**

Time: 3 Hours

Max. Marks:80

**PART-A****10x3=30M**

**Instructions :** 1) Answer **all** questions. Each question carries three marks.  
2) Answer should be brief and straight to the point and shall not exceed five simple sentences.

- 1) Define the terms (a) Sewage (b) Sewer and (c) Sullage.
- 2) State the factors affecting dry weather flow.
- 3) List any two merits and two demerits of circular sewer.
- 4) List any three sewer appurtenances on a sewer line
- 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) State any three requirements of good drainage system in buildings.
- 9) State the advantages of bio-gas plant.
- 10) Define air pollution. State the effects of air pollution on human health.

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## PART-B

**5x10=50M**

**Instructions:** 1) Answer any **five** questions. Each question carries **ten** marks.

2) The answer should be comprehensive and the criteria for valuation is content but not the length of the answer.

- 11) a) List various types of surface drains. 2M  
b) Explain any two types of surface drains with their merits and demerits. 4+4
- 12) Explain the component parts of a pumping station with a neat sketch.
- 13) Describe with sketch, the working of oxidation pond.
- 14) a) List the various methods of sludge disposal. 2M  
b) Explain any two methods of sludge disposal. 8M
- 15) Explain with sketch the working of Flushing cistern. 10M
- 16) Explain with sketches the different types of plumbing systems. 10M
- 17) Explain the construction and working of Janata model bio-gas plant with a sketch. 3+4+3
- 18) Explain air pollution control by stacks. 10M

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