



\*3724\*

C09-C-605

**3724**

**BOARD DIPLOMA EXAMINATION, (C-09)  
OCTOBER/NOVEMBER-2018  
DCE-SIXTH SEMESTER EXAMINATION**

ENVIRONMENTAL ENGINEERING-II

Time : 3 Hours ]

[ Total Marks: 80

**PART-A**

3X10=30

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

1. Define terms: i) Sullage ii) Sewage iii) Sewer.
2. List various steps involved in laying of sewers.
3. List three precautions to be observed in sampling of sewage.
4. What are the principles involved in treatment of industrial wastewater?
5. List out the method of sewage disposal.
6. List the components of solid waste.
7. Define soil pipe and waste pipe.
8. List different types of sanitary latrines used in rural areas.
9. State different Natural sources of Air pollution
10. State any three effects of air pollution human health.

## PART-B

10X5=50

*Instructions* : \*

1. Answer any **Five** questions
2. Each question carries **ten** marks.
3. Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. (a) List any four factors that affect Dry Weather Flow.  
(b) Compare conservancy system and water carriage system in any four aspects.
12. Design a circular sanitary sewer running half full to serve a population of 50,000. Sewage flow is at 180 lpcd. Natural slope of the ground is 1 in 1250. Ratio of max. to average flow is 2.5 Manning's coefficient is 0.012.
13. (a) List various sewer appurtenances and  
(b) Explain the components of ordinary manhole with the help of a sketch.
14. (a) Draw the flow chart of a typical sewage treatment plant  
(b) Write the functions of i) Grit Chamber (ii) Skimming Tank.
15. Explain the construction and working of trickling filter with a neat sketch.
16. (a) List different methods of solid waste disposal.  
(b) Explain Bangalore method of composting.
17. State the requirements of good drainage system in buildings.
18. (a) Write the factors affecting biogas production.  
(b) Explain briefly the working of a gravity settling chamber with a sketch.

\*\*\*\*\*