



c09-c-605

3724

**BOARD DIPLOMA EXAMINATION, (C-09)
SEPTEMBER/OCTOBER - 2020
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. Define the terms (a) sullage and (b) sewage.
2. List any six shapes of sewers.
3. What is meant by strength of sewage?
4. Explain BOD.
5. List any three characteristics of industrial wastage.
6. What is the function of floor trap?
7. Define soil pipe and vent pipe.
8. List any six components of KVIC model biogas plant.
9. State any three effects of air pollution.
10. Define the term 'air pollution'.

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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.** What is meant by combined sewerage system? List any four merits and four demerits of it. 2+4+4=10
- 12.** (a) List different shapes of surface drains. 4
(b) List any six factors affecting the storm water flow. 6
- 13.** Explain various components of sewage pumping station with the help of neat sketch.
- 14.** With the help of neat sketch, explain the construction and working of a trickling filter.
- 15.** (a) List any five objectives of sewage treatment. 5
(b) What is meant by sewage sickness and how can it be prevented? 5
- 16.** Explain in detail three types of bin systems of collecting refuse.
- 17.** (a) List any two merits and two demerits of single-stack system. 4
(b) What are the points to be borne in mind during inspection of drainage system. 6
- 18.** (a) List any five precautions to be observed for maintaining rural sanitation. 5
(b) Explain how air pollution is controlled by stacks and by vegetation. 5

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