



C14-C-602

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BOARD DIPLOMA EXAMINATION, (C-14)

OCT/NOV—2017

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 following terms :

(a) Sewage

(b) Sewer

(c) Sullage

2. Draw the shapes of any three of surface drains.

3. What is a manhole? State the types of manholes. 1+2

4. Define 'dry weather flow'. State two factors affecting it. 1+2

5. Write three objectives of flushing tanks.

6. State three merits and three demerits of activated sludge process. 1½+1½

7. Define pH. What is the importance of pH value in sewage treatment? 1+2

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[*Contd...*

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8. Write any ^{*} three differences between composting and incineration.
9. List three factors affecting bio-gas production.
10. Define air pollution. State any two effects of air pollution. 1+2

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. (a) Write six differences between conservancy system and water carriage system of sewage collection. 6
(b) List four requirements of good surface drains. 4
12. Sketch and explain the working of an ordinary man hole. 4+6
13. Sketch a grit chamber and explain the method of removal of grit from it. 4+6
14. Explain the construction and working of a trickling filter with the help of a sketch. 6+4
15. Explain the following with neat sketch. : 5+5
(a) One-pipe system
(b) Single-stack system
16. Explain about sanitary landfill method of solid waste disposal.
17. Draw a neat sketch of a Janata model of bio-gas plant and explain its working. 4+6
18. Draw a sketch of a cyclone collector and explain its working. 4+6
