



C16-C-405

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**BOARD DIPLOMA EXAMINATION, (C-16)  
OCTOBER/NOVEMBER-2018  
DCE-FOURTH SEMESTER EXAMINATION**

ENVIRONMENTAL ENGINEERING-II

Time : 3 Hours ]

[ Total Marks: 80

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**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 (a) Sewage (b) Garbage (c) Sewerage.
2. List any six sewer appurtenances.
3. State the classification of shapes of sewers.
- \* 4. Draw the neat sketch a street inlet.
5. Define i) BOD ii) COD.
6. State any three objectives of treatment of sewage.
7. List any three demerits of uncontrolled dumping.
8. Define (a) soil pipe (b) Waste pipe (c) Anti syphonage pipe (ASP).
9. Write any three advantages of vermicompost.
10. State various types of rural latrines.

## 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) State any four objectives of sewerage works  
(b) Write the differences between conservancy system and water carriage system of sewage collection in any six aspects.
12. What is a manhole explain ordinary manhole with the help of neat sketch.
13. With the help of sketch explain the construction working of a trickling filter.
14. Design a septic tank for a hostel of 200 students with a water supply of 100 lpcd. (used detention period method)..
15. (a) Draw the flow chart of activated sludge process.  
(b) Write a short notes on (a) aerobic lagoons (b) anaerobic langos.
16. What is composting and Explain Bangalore and Indore methods of composting in detail.
17. (a) State the requirement of good drainage system in buildings in any five aspects.  
(b) With the help of a sketch explain single stack system.
- \* 18. Explain the working of Janatha model biogas plant with sketch.

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