

**3724**  
**BOARD DIPLOMA EXAMINATION, (C-09)**  
**MARCH/APRIL - 2019**  
**\* DIPLOMA IN CIVIL ENGINEERING**  
**ENVIRONMENTAL ENGINEERING - II**  
**SIXTH SEMESTER EXAMINATION**

**Time: 3 Hours**

**Total Marks: 80**

**PART - A (10 x 3 = 30 Marks)**

*Note 1: Answer all questions and each question carries 3 marks*

*2: Answers should be brief and straight to the point and shall not exceed 5 simple sentences*

1. Write three factors affecting collection of refuse.
2. Draw the semi elliptical section and Basket handle section of sewer.
3. Distinguish grab sampling and composite sampling.
4. What is the significance of total solids in sewage?
5. State any four situations favourable for sewage disposal by dilution method.
6. Define the terms "soil pipe" and "waste pipe".
7. Write briefly about the functioning of a floor trap.
8. Briefly explain about a bore-hole latrine.
9. Write any four internal separators to control the air pollution.
10. What is meant by zoning?

**PART - B (5 x 10 = 50 Marks)**

*Note 1: Answer any five questions and each question carries 10 marks*

*2: The answers should be comprehensive and the criteria for valuation is the content but not the length of the answer*

11. Compare Conservancy system with water carriage system
12. (a) State the necessity of Pumping of sewage 4M  
 (b) List six requirements of good surface drains. 6M
- \* 13. What are the storm regulators? Draw the sketches of regulators.
14. Explain the Activated sludge process with flow diagram.
15. What is the purpose of providing skimming tanks? Explain the working of a skimming tank with the help of neat sketch.
16. List the various methods of disposal of refuse. Explain any two methods.
17. Explain the three types of plumbing systems in detail.
- 18A. State six factors affecting bio-gas production.  
 B. Briefly describe the working of cyclonic scrubber to remove the dust from gas.

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