



Symbol of Secularism  
& National Integration

ANJUMAN-I-ISLAM'S  
KALSEKAR TECHNICAL CAMPUS, NEW PANVEL  
School of Architecture

Approved & Recognised by: All India Council for Technical Education and Council of Architecture, New Delhi  
Directorate of Technical Education, Govt. of Maharashtra Affiliated to: University of Mumbai

**SEM-IV S.Y.B.ARCH EXAMINATION APRIL 2015 (REVISED COURSE)**

Subject: Architectural Building Services - I  
Max. Marks: 50  
Date: 18/04/2015

Duration: 2 Hrs

**Notes:**

- Attempt any four Questions from question no 1,2,3,5,6,8
- Attempt any three questions from question number 4,7,9,10
- Numbers on the right hand side indicate marks.
- No extra marks for optional questions.

1. What are the different types of traps used in building drainage system. Explain with neat sketches. 5
2. Explain in detail the types of systems used for building drainage. 5
3. What are the different types of pipes used for building drainage. 5
4. Write short notes on the following : 10
  - a. Gully trap
  - b. Inspection chamber
  - c. Disconnecting chamber
  - d. Manhole
5. What is septic tank and soak pit. Explain in detail with neat sketches. 5
6. What is rainwater harvesting? What is the need to harvest rainwater? 5
7. What are the different methods to harvest rainwater? 10
8. Explain the rooftop rainwater harvesting system. 5

9. Explain the different types of filters used for filtration of rainwater collected from the catchment area. 10
10. Write short notes on : 10
- a. Recharge wells
  - b. Recharge pits
  - c. Recharge trenches