

BACHELOR OF ARCHITECTURE

Term-End Examination

June, 2011

**BAR-049 : ARCHITECTURAL SCIENCES &
SERVICES - III
(WATER SUPPLY AND SANITATION)**

Time : 3 hours

Maximum Marks : 70

Note : Part A is compulsory. Attempt any four questions from part B. All questions carry equal marks. Support your answers with neat sketches.

PART - A

1. Write explanatory notes on the following. **2.5x4=10**
 - (a) Soak pits
 - (b) Acid Rain
 - (c) Safe water
 - (d) Hydrological cycle
2. Differentiate between *any two* of the following. **5x2=10**
 - (a) Gravity spring and Artesian spring.
 - (b) Aquifer and Outcrop.
 - (c) Street Inlets and Catch Basin.
 - (d) House drain and house sewer.
3. Write short notes on the following. **2x5=10**
 - (a) Sewage
 - (b) Fire Demand
 - (c) Chlorination
 - (d) Sedimentation
 - (e) Biogas

PART - B

4. What are the methods available for supplying water to the consumers ? Which one do you think to be preferable and why ? 10
 5. Explain the proper method of sewage disposal in a city. 10
 6. Distinguish between surface drains and underground drains. Why surface drains are needed ? 10
 7. What do you understand by the term " Rain Water Harvesting" ? Explain the process of installing rain water harvesting system in a single storey residential building. 10
 8. What are "traps" ? Why is it necessary that all sanitary fittings should be provided with individual traps ? State the different traps in use. 10
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