

BACHELOR OF ARCHITECTURE

Term-End Examination

December, 2011

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

Time : 3 hours

Maximum Marks : 70

Note : (i) *Attempt five questions in all.*
(ii) *Question No. 1 is compulsory.*

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1. Discuss *any four* of the following. **3.5x4=14**
 - (a) Per capita demand of water
 - (b) Difference between supply pipe and distribution pipe
 - (c) pH value of water
 - (d) BOD
 - (e) Difference between potable and non potable water.
 - (f) Purity of water

 2. Discuss in brief, the sanitary fittings used in the drainage system of a building. **14**

 3. What are the sources of water used by a community ? How is the distribution system determined for a typical housing complex ? **14**

4. Describe the system of disposal of waste water from a building and within the premises. 14
 5. What does one understand by the term " Rain water harvesting" ? Enumerate the systems involved in the process. 14
 6. Describe the relevance of "Bio Gas" for third world nations. 14
 7. Discuss the various methods of purification of water. 14
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