

BACHELOR OF ARCHITECTURE

Term-End Examination

June, 2012

00925

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

Time : 3 hours

Maximum Marks : 70

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

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1. Answer *any two* of the following : 7x2=14
- (a) What are the norms for water supply in various types of building and how does one determine the demand ?
 - (b) Why is turbidity in water considered objectionable ?
 - (c) What is the difference between intercepting sewer and outfall sewer ?
 - (d) Enumerate the role of architectural services in Green buildings.
2. (a) What are the characteristics of purity of water ? 7x2=14
- (b) Discuss the methods of purification of water.
3. (a) Discuss for a typical residence project the internal plumbing layout and system. 14
- (b) How will you determine the size of the pipes?

4. State briefly the basic principles governing the design of water - supply in a building with particular reference to the quantity flow and layout of the pipe system. 14
5. Describe the key aspects for design and disposal of rain and surface water for an institutional campus. 14
6. (a) What role does sand gravel play in water filters? 7x2=14
(b) Discuss the use of a sluice valve in water supply system.
7. (a) Why do we need to conserve water? 14
(b) List out various methods of conserving water and discuss any one in detail for Urban areas.
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