

BACHELOR OF ARCHITECTURE (B.Arch.)

Term-End Examination

December, 2016

00272

BAR-049 : ARCHITECTURAL SCIENCES AND SERVICES – III

(WATER SUPPLY AND SANITATION)

Time : 3 hours

Maximum Marks : 70

Note : *All questions carry equal marks. Attempt any **five** questions in all. Supplement your answer with neat sketches.*

1. Differentiate between any **two** of the following : *2×7=14*
 - (a) Low flow fixture and Dual flush fixture
 - (b) One-pipe system and Two-pipe system
 - (c) Gravity spring and Artesian spring

2. State the key aspects of design and disposal of rain water and surface water for a multi-storeyed commercial tower building. *14*

3. How does one determine the demand for water supply of a residential apartment building which has 2 flats (3 bedrooms each) on each floor and is G + 4 in height ?
Assume : Ground is meant for parking. 14
4. What is 'potable' water ? Discuss its source and characteristics. 14
5. Explain the garbage disposal methods in a city. Also mention the use of equipments for the same. 14
6. Explain the following : 2×7=14
- (a) Taps and fittings used in a distribution system
 - (b) Fire storage
7. Write notes on the following : 2×7=14
- (a) Septic tank
 - (b) Sand gravel filter
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