

BACHELOR OF ARCHITECTURE (B.Arch.)

Term-End Examination

00380

June, 2016

BAR-049 : ARCHITECTURAL SCIENCES AND SERVICES – III

(WATER SUPPLY AND SANITATION)

Time : 3 hours

Maximum Marks : 70

Note : Question no. 1 is compulsory. Attempt any four from the rest. All questions carry equal marks.

1. Write short notes on any **four** of the following :

$$4 \times 3 \frac{1}{2} = 14$$

- (a) Stack Venting
- (b) Septic Tanks
- (c) Disposal of Rain and Surface Water
- (d) Standards for Water Storage Requirements
- (e) Hot Water Supply Systems

2. A residence has 4 bedrooms with toilets attached and a kitchen. Describe the sewage disposal with a sketch of a probable layout. 14
 3. What is meant by 'Fire demand' in a water supply system ? Discuss the drainage system options in a tall building. 14
 4. What are the different qualities of potable water ? Enumerate the procedure of testing of water quality. 14
 5. State briefly the basic principles of water supply design in a building with particular reference to 'per capita demand of water' and 'probable flow rate'. 14
 6. Why do plumbing systems have traps ? Discuss the difference between one- and two-pipe systems. Explain any two types of joints used for water mains. 14
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