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BAR-049

**BACHELOR OF ARCHITECTURE
(B.ARCH.)**

**Term-End Examination
June, 2019**

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

Time : 3 Hours

Maximum Marks : 70

*Note : Part A is compulsory. Question Nos. 1 & 2.
Attempt any three questions from Part B
(out of 4). Support your answers with neat
sketches. Marks of each question is
mentioned against each.*

Part-A

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

5×3=15

- (i) Bio-gas technology
- (ii) Inspection chamber
- (iii) Watershed management
- (iv) Rapid sand filter

(A-6) P. T. O.

- (v) Standards for potable water
 - (vi) Types of sanitary traps
 - (vii) Water requirement standards for a residential area
2. What all equipments for garbage disposal should be considered for a campus facility ? 10

Part-B

3. (a) What are the methods of rain water harvesting adopted at a city scale ? 8
- (b) Discuss the various methods for conservation of water resources in urban areas. 7
4. Explain the pumping of water in respect to the various pumps with their functions and special characteristics. 15
5. Discuss in detail the various sanitation layouts for installation in building and its premises. 15
6. Discuss the various stages of water purification at city level. 15