BAR-049

BACHELOR OF ARCHITECTURE (B.Arch.)

Term-End Examination

00233

June, 2018

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

Time: 3 hours Maximum Marks: 70

Note: Question no. 1 is **compulsory**. Attempt **four** more questions from the remaining questions. All questions carry equal marks.

- 1. Write short notes on any **four** of the following: $4 \times 3 \frac{1}{2} = 14$
 - (a) Gully Trap
 - (b) Septic Tank
 - (c) Biogas plant
 - (d) Flocculation
 - (e) Gridiron pattern of water supply

2.	What are the different sources of water supply? Explain any two in detail.	14
3.	Discuss in detail the water demand and requirement standards for a building premises.	14
4.	What is Rain Water Harvesting? Design and detail out a rain water harvesting system for an institutional campus.	14
5.	Describe the different internal plumbing layouts. Detail out the methods for determining the pipe size for a residential distribution system.	14
6.	What is a soak pit? Detail out the design considerations for a manhole. Support your answer with neat sketches.	14
7.	What do you understand by wastewater management? Explain the different stages adopted in a sewage treatment plant with neat	
	sketches.	14