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USN





(03 Marks) (03 Marks)

(02 Marks)

Fourth Semester B.Arch. Degree Examination, Jan./Feb. 2023 **Building Services** – I

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

1	a.	What are water borne diseases? Explain briefly its causes and most comm	only observed
		diseases.	(10 Marks)
	b.	Describe conservancy and water carriage system of sanitation	(10 Marks)

OR

2	a.	What are the factors affecting rate of Demand of water? Explain.	(10 Marks)
	b.	How do you assess the requirement of water for a residence?	(10 Marks)

Module-2

3	Sketch and explain the difference be	etween:	
a.	Inspection chamber and man hole		(10 Marks)
b.	Gully trap and grease trap.	X. *	(10 Marks)

OR

4	a.	Explain with neat sketches m	nethods of Rain	water harvesting.	(15 Marks)
	b.	Explain. What is first flush?	· ·		(05 Marks)

Module-3

What do you understand by traps? Explain the requirements of good trap. Sketch and explain the types of traps based on their shape and function. (20 Marks)

OR

6	a.	Discuss the merits and demerits of stone ware pipes and cast iron pipes.	(10 Marks)
	b.	Explain Gate valve and Butterfly valve.	(10 Marks)

Module-4

	Explain with r	eat sketch:	· ·	
a.	Water closet		(I)	
b.	Bath tub	and the second	Lan.	
c.	Taps			

d. Wellness products like sauna, steam and Jacuzzi. (12 Marks)

OR

Explain your understanding about solid waste management. Explain various steps involved in solid waste management.
(20 Marks)

Module-5

9 Suggest various measures for fire safety and prevention high rise buildings. (20 Marks)

OR

10	a.	explain LPG supply system in high rise residential building.	(10 Marks)
	b.	Explain your understanding of solar Hot water generation in buildings	(10 Marks)

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