

Model Question Paper-1/2 with effect from 2021-22 (CBCS Scheme)

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Sixth Semester B.E. Degree Examination
Design Concepts in Building Services

TIME: 03 Hours**Max. Marks: 100**Note: Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.

Module -1			*Bloom's Taxonomy Level	Marks
Q.01	a	What are the water saving practices that can be made in residential buildings?	L1	8
	b	What are the different types of taps? Explain any three types.	L1	12
OR				
Q.02	a	Explain in detail about rain water harvesting and rooftop harvesting along with typical components of rain water harvesting.	L2	12
	b	Explain the components of a service connection for water supply from the mains to a building with a neat sketch.	L2	8
Module-2				
Q. 03	a	Discuss the various types of thermal insulating materials and the factors that affect their selection.	L2	10
	b	What are the advantages & disadvantages of air conditioning?	L1	10
OR				
Q.04	a	What is Ventilation? Discuss its necessity. Explain the systems of ventilation.	L2	10
	b	Explain in brief about thermal insulation of roofs and exposed walls with simple diagrams.	L2	10
Module-3				
Q. 05	a	Explain any three protective devices in electrical installation.	L2	10
	b	Classify buildings based on occupancy as per NBC.	L4	10
OR				
Q. 06	a	What is earthing? Explain any two types of earthing.	L2	10
	b	Write short notes on i) Smoke detectors & ii) Wet risers	L2	10
Module-4				
Q. 07		Draw firefighting layout for an office building & clearly label the different parts of the layout. Briefly describe the parts of the layout.	L5	20
OR				
Q. 08		Draw plumbing layout for a residential building & clearly label the different parts of the layout. Briefly describe the parts of the layout	L5	20
Module-5				
Q. 09	a	Explain hot water boilers with a simple sketch.	L2	10
	b	Write a short note on MIS for building maintenance.	L1	10
OR				
Q. 10	a	Write short notes on Generators.	L1	10
	b	What is the necessity for building maintenance? List the types of building maintenance.	L1	10