

Model Question Paper-1/2 with effect from 2022-23 (CBCS Scheme)

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Fourth Semester B.E. Degree Examination
Subject Title: Building Services -II

TIME: 03 Hours**Max. Marks: 100**

Note: 01. Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.

Module -1			*Bloom's Taxonomy Level	Marks
Q.01	a	What is meant by Sub-stations? Describe different types of substations with reference to location.	L1	10
	b	Write short notes on I. Current II. Load factor III. Transformers	L1	10
OR				
Q.02	a	Describe how the general distribution of electric power is done for a small city	L3	15
	b	Discuss the main objects and function of state electricity board.	L1	05
Module-2				
Q. 03	a	Draw the internal layout of the following type of distribution system Single phase 2 wire system. Three phase 4 wire systems. Explain the significance of each of the parts of the distribution layout.	L4	20
OR				
Q.04	a	What is net-zero building. Discuss the different ways net-zero is achieved using a case example of a high rise building.	L4	20
Module-3				
Q. 05	a	Write a short note on MCB with a neat sketch	L1	8
	b	Explain the function of fuse wire used in electric circuit and discuss selection of fuse wire for particular electric load.	L2	12
OR				
Q. 06	a	Explain ELCB and air circuit breakers.	L1	10
	b	Explain lightning protection measures in high rise structures.	L2	10

Module-4				
Q. 07	a	Mention the methods of artificial lighting for the following applications. Justify your selection. A. Museum, B. Entrance lobby of an office C. Restaurant	L3	20
OR				
Q. 08	a	What is artificial lighting? What are the factors contributing to good lighting? List few recommended LUX levels/lumens.	L2	10
	b	Explain "LIGHT SHELF".	L1	10
Module-5				
Q. 09	a	Draw a single line diagram of two bed room residence and prepare the electrical layout using standard symbols. Calculate the electrical load for the lighting of the residence	L3	
OR				
Q. 10	a	Explain the following extra low voltage systems (ELVS): i) Telephone ii) Data and cable TV network 1) Service provider requirement and automation iv) Point matrix for residences	L1	20