

Reg. No.

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B.E./ B.TECH. DEGREE EXAMINATIONS, MAY 2024

Second Semester

CE22201 – BUILDING PLANNING AND DRAWING*(Civil Engineering)***(Regulation 2022)****TIME: 1 HOUR 30 MINUTES****MAX. MARKS: 50**

COURSE OUTCOMES	STATEMENT		RBT LEVEL
CO 1	Explain the fundamentals of buildings and components of a building.		2
CO 2	Apply the basic principles of building planning and orientation.		3
CO 3	Plan residential buildings.		3
CO 4	Summarise the important aspects of planning public buildings.		2
CO 5	Implement anthropometric studies and bye laws while planning a building.		3

PART- A (10 x 2 = 20 Marks)

(Answer all Questions)

		CO	RBT LEVEL
1.	What is the significance of bonds in brick masonry work?	1	2
2.	What is the purpose of a plinth beam?	2	2
3.	What are the factors to be considered by a planner for planning a residential building?	3	2
4.	What is the difference between house and home?	3	2
5.	What are the requirements of garage in a residential building?	3	2
6.	List out the factors to be considered for site selection of a school building.	4	2
7.	Name the various types of staircases used in public buildings.	4	2
8.	Differentiate Carpet area and Built-up area.	5	2
9.	What are the factors to be considered in fixing FAR in a particular town or city?	5	2
10.	What is meant by off street parking?	5	2

PART- B (2 x 10 = 20 Marks)

	Marks	CO	RBT LEVEL
11. (a) Discuss the classification of buildings based on occupancy and fire resistance.	(10)	1	2
(OR)			
(b) Draw a typical cross section of a load bearing structure and explain the components of the building.	(10)	1	2
12. (a) Explain in detail about any five principles of building planning.	(10)	2	2
(OR)			
(b) Summarise the factors affecting the orientation of the building.	(10)	2	2

PART- C (1 x 10 = 10 Marks)

(Q.No.13 is compulsory)

	Marks	CO	RBT LEVEL
13. What is anthropometry? Explain its importance in building planning with illustrations.	(10)	5	5
