

Reg. No.

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

Second Semester

CE18202 – BUILDING PLANNING*(Civil Engineering)***(Regulation 2018/2018A)****TIME: 3 HOURS****MAX. MARKS: 100**

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

PART- A (10 x 2 = 20 Marks)

(Answer all Questions)

	CO	RBT LEVEL
1. What is the purpose of a lintel beam?	1	2
2. Describe about mercantile building.	1	1
3. What is the purpose of ventilation?	2	1
4. What is meant by functional planning?	2	1
5. List the requirements of a drawing room.	3	1
6. What should be the dimensions of a dining table?	3	1
7. List the factors to be considered for site selection of a hospital.	4	1
8. List the components of a library.	4	1
9. Differentiate Carpet area and Built-up area.	5	2

10. When do you apply the building bye-laws?

PART- B (5 x 14 = 70 Marks)

	Marks	CO	RBT LEVEL
11. (a) Classify the buildings based on occupancy as mentioned in NBC.	(14)	1	2
(OR)			
(b) Explain in detail about the components of the superstructure of a load-bearing structure.	(14)	1	2
12. (a) Explain about aspect, prospect, circulation and grouping. Explain its importance.	(14)	2	2
(OR)			
(b) Discuss in detail the various factors affecting the orientation of the building.	(14)	2	2
13. (a) Give the standard dimensions for the following rooms of a residential building - (i) Veranda (ii) Bed room (iii) Kitchen	(14)	3	2
(OR)			
(b) What are the factors to be considered by planner before planning a residential building? Explain one of them in detail.	(14)	3	2
14. (a) Write short notes on floor area ratio. How it is related to height of the building, explain and differentiate floor area ratio with carpet area.	(14)	4	2
(OR)			
(b) Explain the principle of planning a hospital.	(14)	4	2
15. (a) Write short notes on floor area ratio. How it is related to height of the building, explain and differentiate floor area ratio with carpet area.	(14)	5	2
(OR)			
(b) What is Engineering Anthropometry? Explain with examples how anthropometrics could be used to determine the size and shape of rooms for human activities.	(14)	5	2

PART- C (1 x 10 = 10 Marks)

(Q.No.16 is compulsory)

Marks	CO	RBT LEVEL
(10)	5	4

16. What are the objectives of building bye laws and discuss its importance.
