

Reg. No.

--	--	--	--	--	--	--	--	--	--

**B.E. / B.TECH. DEGREE EXAMINATIONS, DEC 2019**

Second Semester

**CE18202 – BUILDING PLANNING***(Civil Engineering)***(Regulation 2018)****Time: Three Hours****Maximum : 100 Marks**

Answer ALL questions

**PART A - (10 X 2 = 20 Marks)**

	CO	RBT
1. Define plinth level.	1	R
2. Classify the buildings based on load pattern.	1	R
3. List the purpose of ventilation and also write ventilation types.	2	R
4. What are the factors affecting Orientation of a building?	2	R
5. Write the factors to be considered in selecting a good site for residential buildings.	3	R
6. Give the minimum dimension for doors, windows and ventilators as per the rules and regulations.	3	R
7. What are the planning factors in the design of a hospital building?	4	R
8. What are the factors to be considered while design an auditorium?	4	R
9. How do you differentiate carpet area and plinth area?	5	R
10. Write any four safety standards in public building.	5	R

**PART B - (5 X16 = 80 Marks)**

11. (a) (i) Compare stone masonry with brick masonry.	(6)	1	U
(ii) With neat sketches explain about various types of staircases.	(10)	1	U
<b>(OR)</b>			
(b) Explain in detail about Building foundation and its types with neat sketches.	(16)	1	U
12. (a) Explain in detail about the orientation criteria for residential buildings in India with reference to various climate types.	(16)	2	U

**(OR)**

- (b) What are the principles which govern the theory of planning for a good building? Explain any five with neat sketches. (16) 2 U
13. (a) Explain with neat sketches the dimensional requirement for a kitchen and bed room in a residential building. (16) 3 U
- (OR)**
- (b) Explain the following terms in standard specifications with a neat sketch: (i) Doors (ii) Windows (iii) Ventilators (16) 3 U
14. (a) (i) Explain the components provided in the design of theatre buildings. What are the factors to be considered while designing the theatre with reference to acoustics? (7) 4 U
- (ii) Draw a line diagram for a school building with suitable dimension. Briefly explain the principles of your planning. (9) 4 U
- (OR)**
- (b) (i) What are the factors to be considered for a public building while site selection? (4) 4 U
- (ii) A library building is to be located in a village at a site measuring 6000 m<sup>2</sup>. The longer dimension is east west direction with the main road along the southern side. Draw a line diagram of the above building. Briefly explain the principles of your planning. (12) 4 U
15. (a) What is anthropometrics? Explain with examples how anthropometrics could be used to determine the size and shape of rooms for human activities. (16) 5 U
- (OR)**
- (b) (i) Explain in detail about safety standards provided in the design of an industrial building. (8) 5 U
- (ii) Explain with neat sketches the standard dimensions provided for various building elements with reference to the regulatory authorities. (8) 5 U