

Ex/Arch/T/311/2018

BACHELOR OF ARCHITECTURE THIRD YEAR FIRST SEMESTER - 2018

ARCHITECTURAL CONSTRUCTION - III

Time: 3 Hours | Full Marks: 100

1. Categorized by movability, what are the different types of partition wall?
2. Write down the definition of false ceiling?
3. How is woodcrete formed which is used in panelling?
4. In architectural construction, what does (i) ACP and (ii) GFRC stand for?
5. How is curtain wall different from load bearing wall?
6. What are the two major mechanisms of a sliding door?
7. Name two types of membranes used in tensile fabric structures?
8. What are Scissors in collapsible gates?
9. How is horizontal and vertical sliding windows different from each other?
10. What is the slope of a barrier free ramp? Sketch its elements.

10 x 2 marks = 20 marks
11. What are the purposes of false ceiling?
12. How is Wainscot and Boiserie used in wall paneling? How are the two different from each other?
13. Describe column cover and spandrel system curtain wall along with neat sketches.
14. Neatly draw and label the different parts/ elements of a barrier free (i) Door & (ii) Window.

4 x 5 marks = 20 marks
15. A wall of length 7 meters and height 4 meters need to constructed in a restaurant. On one side of the wall there is a family restaurant with peaceful, calm ambience and on the other side there is a disco with dance floor and loud music.
Design and describe a partition wall for this particular purpose with neat, proportionate and illustrative sketches. The wall should be thin in section, lightweight and efficient in function.
16. What is the difference between exposed grid suspended ceiling and concealed grid metal plate suspended gypsum board ceiling?
Describe both of them with neat, proportionate and illustrative sketches.
17. There is a drawing room with dimension 7.5 meters by 5 meters, with an abutting balcony on the narrower side of the room. Design a sliding folding door for the opening of 5m.
Describe the design through its plan, elevation, details and labelling.
18. What are the different types of (i) tensile fabric structures and (ii) pneumatic structures?
Describe them with neat diagrams and sketches with labelling.

4 x 15 marks = 60 marks