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M – 6078

Reg. No. :

Name :

Fourth Semester B.Tech. Degree Examination, December 2021

13.406 : BUILDING PLANNING AND DRAWING (C)

(2013 Scheme)

Time : 3 Hours

Max. Marks : 100

PART – A

Answer all questions :

1. Explain the relevance of environmental protection rules in construction.
2. Write note on safety rules to be followed in the multi storied building.
3. Give the unit of measurement of (a) Painting (b) RR masonry for foundation (c) Pointing (d) Plastering of wall.
4. Differentiate (a) Plinth area and carpet area (b) Covered area ratio and Floor area ratio.
5. List different type of buildings.

(5 × 4 = 20 Marks)


PART – B

(Answer any one full question from each module)

Module – I

6. What is CRZ rule and explain its relevance to the environmental protection.
7. Explain various aspects relevant to the building rule to be considered while the construction of a residential building.

(1 × 20 = 20 Marks)

P.T.O.


Module – II

8. Explain the procedure for determining the storage capacity for rain water harvesting system for a residential building.
9. Estimate the following quantities of the building shown in the figure 1. (a) Earth work excavation (b) PCC in foundation (c) RR masonry for foundation (d) RR masonry for basement. (W1 = 75 x 150 cm; W2 = 150 x 150 cm; D 90 x 210 cm) Dimensions given in the figure are in centimetres. Room size shown in the figure are internal. (1 x 20 = 20 Marks)

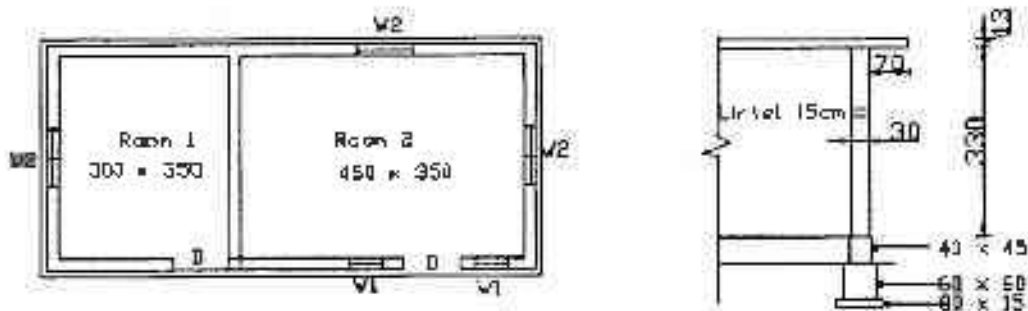


Figure 1
Module – III

10. Develop the following drawing in suitable scale from the line sketch given in the Figure 2.
- (a) Sectional Plan at sill level
(b) Sectional Elevation (select suitable section)
(c) Front Elevation

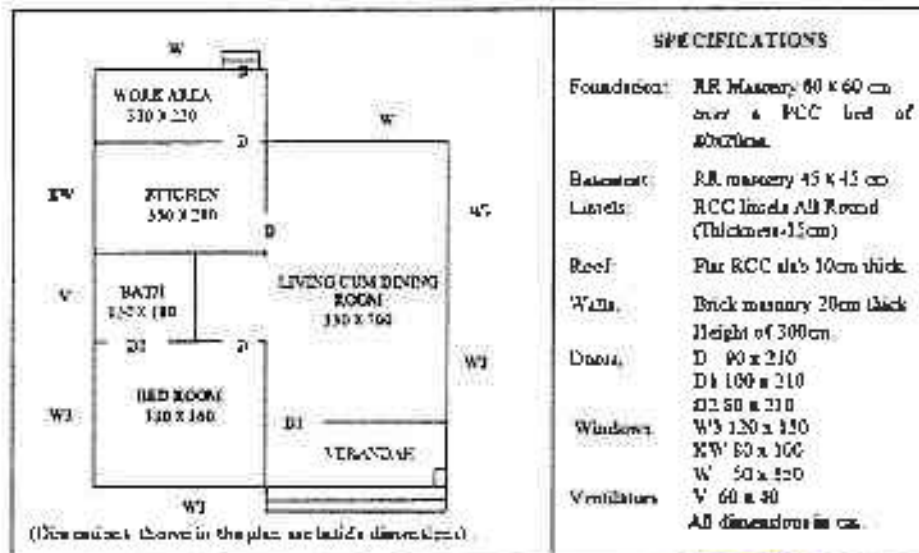


Figure 2



11. Draw to suitable scale, the plan and front elevation of the office building shown in Figure 3. Specifications are as follows :

- Foundation and basement : RR masonry 60 cm x 60 cm and 45 cm x 45 cm respectively
- Superstructure: Brick masonry in CM 1:5, 20 cm thick and 3.5 m height, 15 cm thick RCC Intel provided all round.
- Roof: MP tile roofing (slope 30°)
- Door D 90 cm x 210 cm ; D1 75 cm x 210 cm; O 150 cm x 210 cm; RS 120 cm x 250 cm; W3 150 cm x 150 cm; W2 100 cm x 150 cm
- All internal dimensions shown in the figure are in Centimetres.

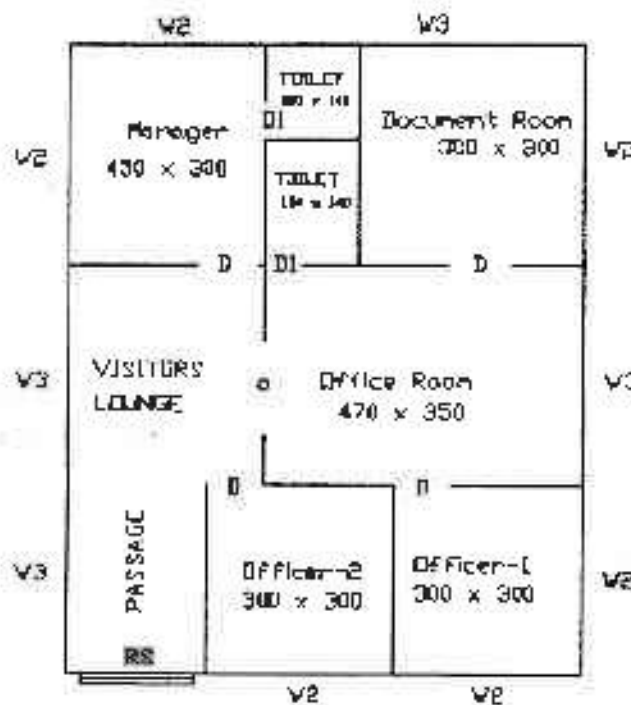


Figure 3

(1 × 40 = 40 Marks)

