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A – 4171

Reg. No. :

Name :

**Fourth Semester B.Tech. Degree Examination, June 2016
(2013 Scheme)**

13.406 : BUILDING PLANNING AND DRAWING (C)

Time : 3 Hours

Max. Marks : 100

Instruction : Answer **all** questions from Part **A** and **one full** question from **each** Module of Part **B**.

PART – A

Answer **all** questions :

1. Write a note on setback rules.
2. State the standards on minimum height and size of rooms for low income housing.
3. Define the following :
 - i) Plinth area
 - ii) Carpet area
 - iii) Covered area ratio
 - iv) Floor area ratio
4. Explain briefly how the storage capacity of the rainwater harvesting system is computed as per norms.
5. Explain the principle of centre line method of building estimate. **(5×4=20 Marks)**



PART – B

Answer **one** question from **each** Module :

Module – I

6. Discuss briefly the concepts and principles of building planning.

OR

7. What is the importance of Environmental Protection Rules ? Discuss the important rules.

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P.T.O.



Module – II

8. Explain how the plinth area, carpet area, covered area ratio and floor area ratio are computed for a building.

OR

9. Find the quantity of earth work, cement concrete 1 : 8 : 16 in foundation, first class burnt brick work in CM 1 : 6 in plinth and foundation and also in superstructure from the given plan and section of the L-shaped wall as shown in Fig. 1.

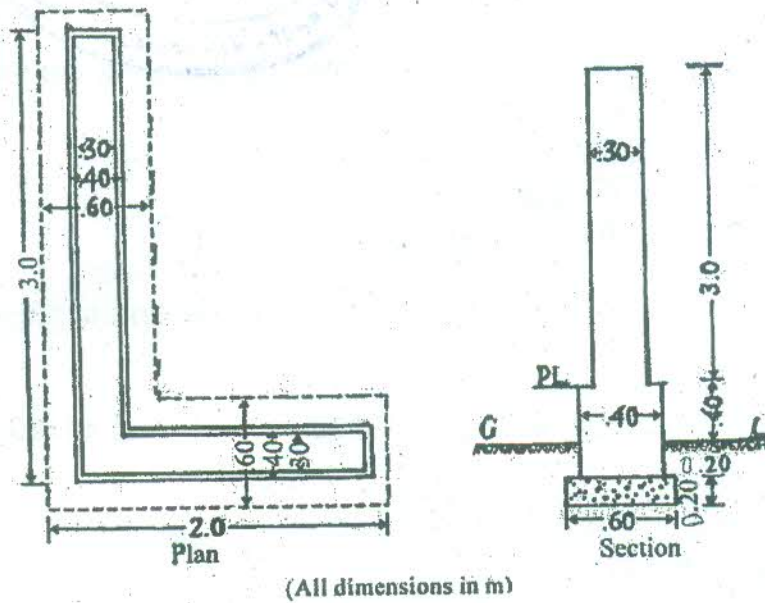


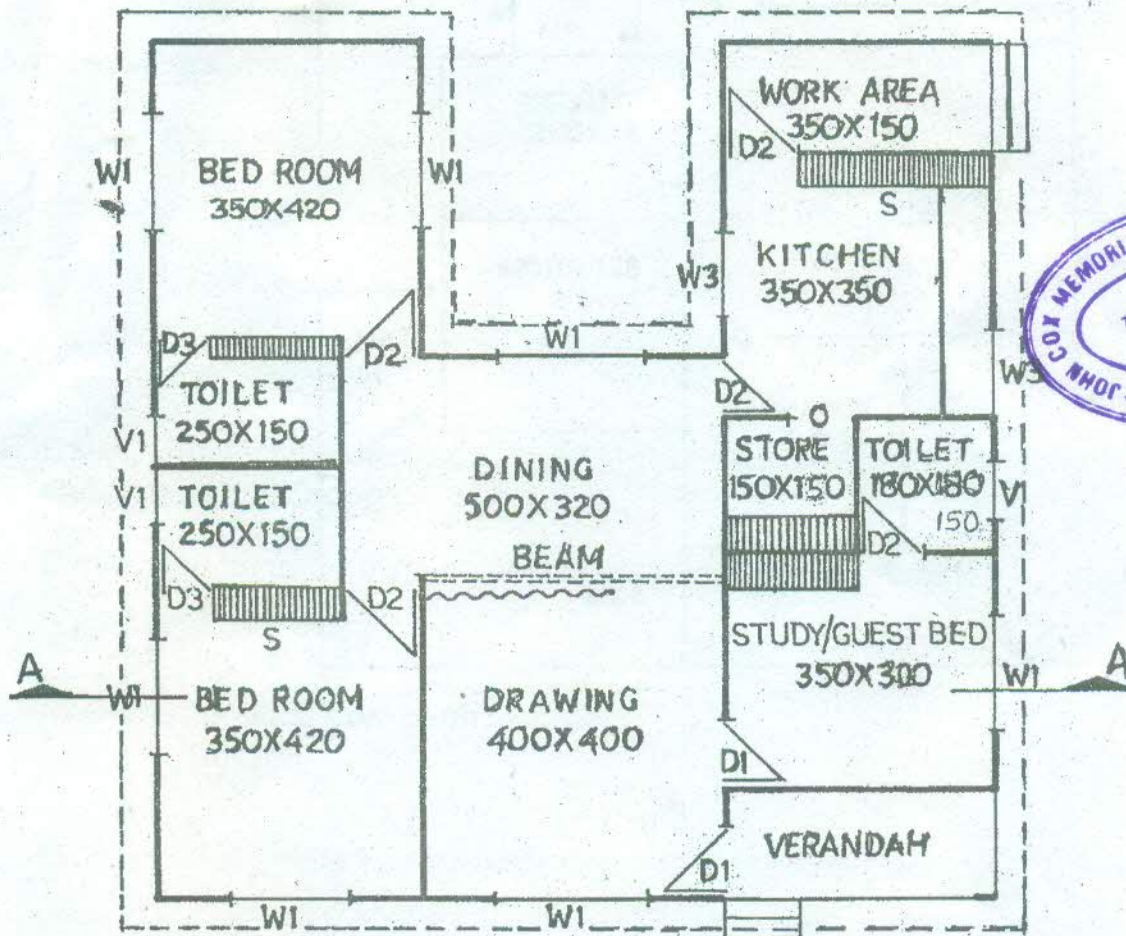
Fig. 1



Module - III

10. The line diagram of three-bed-room house is shown in Fig. 2. Prepare a set of working drawings consisting of a plan, section on AA and a front elevation with the following specifications :

Specifications : The foundation and basement are of RR masonry in CM 1 : 6. The depth of foundation is 90 cm below ground level and includes 15 cm thick PCC course. The basement has a width of 30 cm and height 45 cm above ground level. The walls are 20 cm thick, brick in CM 1 : 6. Provide sunshades, lintels and beams at necessary places. The roof is of RCC, 12 cm thick with the edges projecting out by 60 cm. Assume all other data necessary.



ALL INSIDE DIMENSIONS

DIMENSIONS IN CENTIMETRES

Fig. 2

OR



11. The line diagram of a residential building is shown in Fig. 3. Prepare water supply and sanitary layout plans with usual notations.

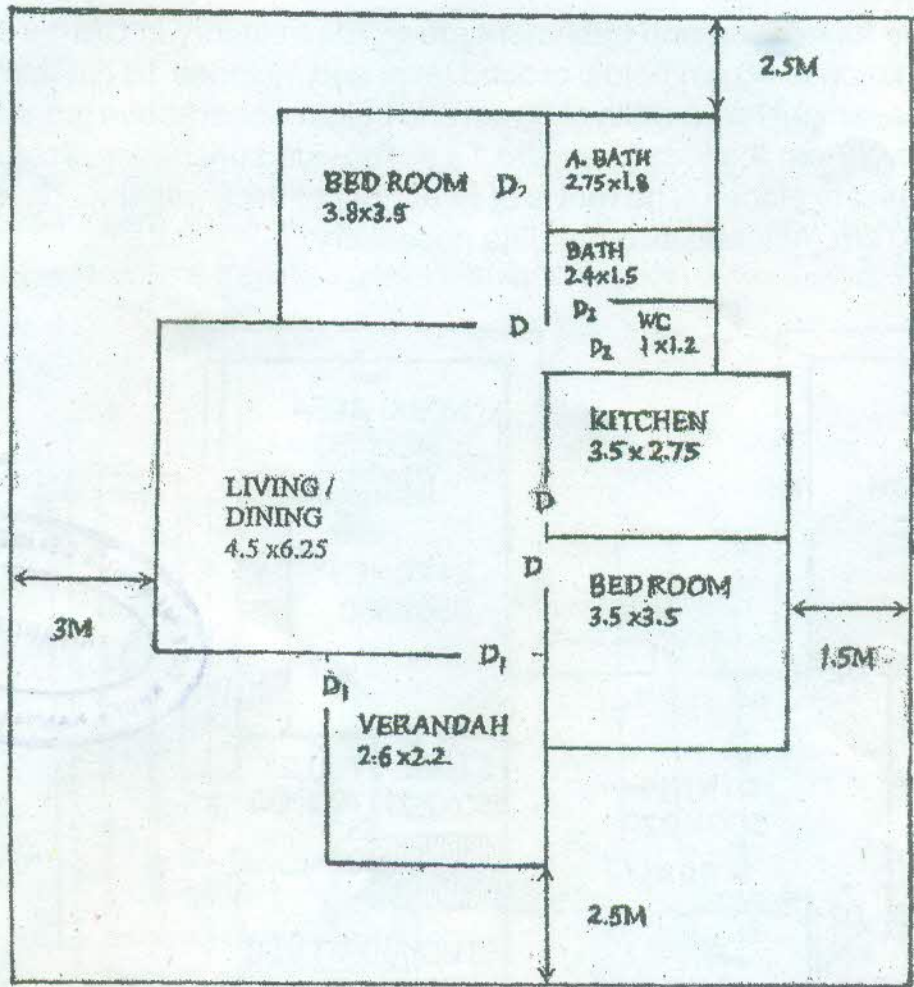


Fig. 3