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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.TECH II Year II Semester Supplementary Examinations December 2018
BUILDING PLANNING AND DRAWING
 (Civil Engineering)

- Note: 1. Question Paper consists of two parts (Part –A and Part –B) each 30 Marks.
 2. In Part –A, Each question carries ten marks.
 3. Answer ALL the questions in Part-A and Part-B

PART –A

Unit -I

1. a) Explain the factors to be considered while selecting the site for Residential building. 6M
 b) Explain the terms (i) circulation and (ii) Elegance. 4M
OR
 2. a) What are building bye-laws and list out the objectives of building bye-laws ? 6M
 b) Explain (i) Floor area ratio and (ii) Floor space index. 4M

Unit –II

3. Explain the functional requirements of residential building. 10M
OR
 4. a) Write short notes on requirements of an office building. 5M
 b) Explain the principles of planning a hospital. 5M

Unit –III

5. Write short notes on components of building automation system. 10M
OR
 6. Give a detailed note on noise and acoustic comfort. How do you design a building for thermal comfort? 10M

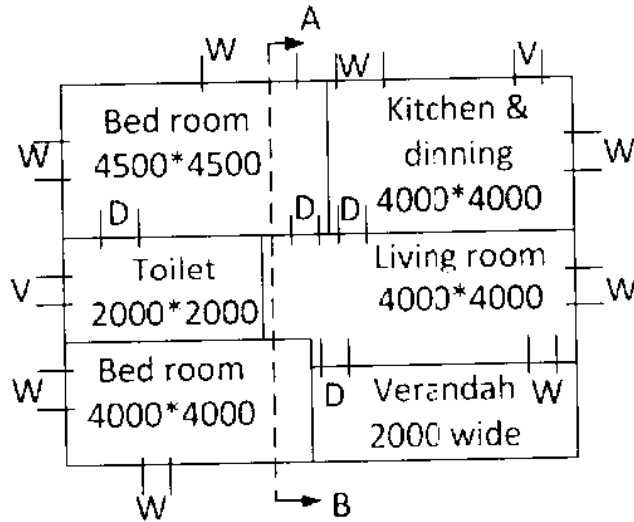
PART –B

Unit –IV

7. a) Draw a neat sketch of an odd and even course of English bond for a one and half brick wall. 6M
 b) What are the objectives of conventional signs? 4M
OR
 8. a) List out different types of windows and explain any one type of window. 6M
 b) What are the salient features of framed and paneled doors? 4M

Unit -V

9. Fig. shows the line drawing of a residential building. Draw to a suitable scale, the following: 20M
 (a) Plan (b) Section along AB (c) Front elevation.
 The following specifications are to be adapted.
 Foundation: Depth=1000mm, C.C bed =1000mm *300mm, Two footings with an offset of 50mm and 250mm thickness each. Basement= 600mm high, thickness of wall at this level is 400mm. Walls: Brick masonry in C.M: 1:6, 300mm thick. Roof: R.C.C slab= 120mm thick. Provide doors, windows, ventilators, steps etc. as per standard dimensions. Assume Any data required.



OR

10. Fig. shows the line diagram of an office building. Draw to a suitable scale 20M (a) plan (b) section along AA (c) front elevation, with the following specifications.

Assume any other data required.

Foundation: Depth is 1000mm, C.C Bed (1:4:8) of 800 mm X 300 mm.

Footings: Two footings with an offset of 50mm and 250 mm thick each.

Basement: 750 mm height, thickness of basement wall is 400mm.

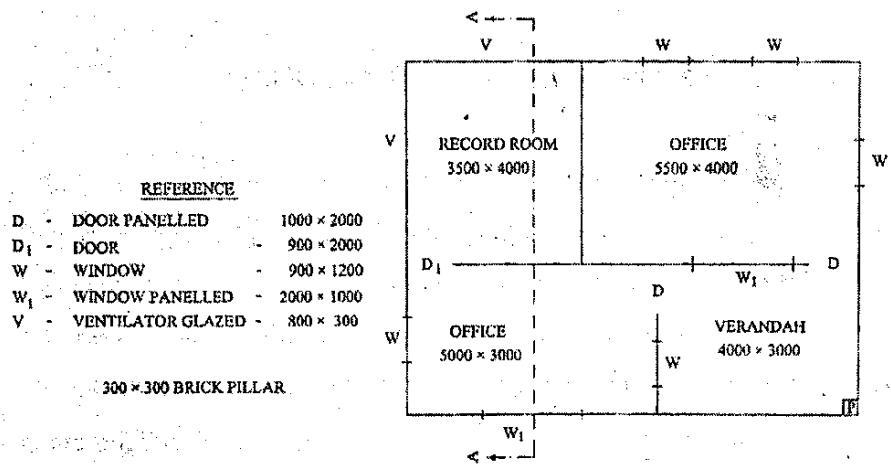
Super structure: Brick masonry in C.M(1:6), 300 mm thick and 3600 mm height.

Roof: R.C.C Slab, 120mm thick.

Flooring: C.M (1:3), 20 mm thick over CC (1:5:10), 100mm thick.

Sunshades: Projection from the face of the wall is 600mm and thickness is 100 mm.

Parapet Wall: 100mm thick and 600 mm height.



END