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**SIDDHARTH INSTITUTE OF ENGINEERING AND TECHNOLOGY: PUTTUR  
(AUTONOMOUS)**

**II B.Tech II Semester Supplementary Examinations Dec 2019**

**BUILDING PLANNING AND DRAWING**

(Civil Engineering)

Time: 3 hrs

Max.Marks:60

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

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**PART – A****30 Marks****Unit - I**

- 1 Explain the factors to be considered while selecting the site for Residential building. 10M

**OR**

- 2 Explain (i) Floor area ratio and (ii) Floor space index. 10M

**Unit - II**

- 3 Explain the functional requirements of residential building. 10M

**OR**

- 4 a. What are the principles of planning a library building? 4M  
b. Describe the important departments and facilities to be provided in the layout of hospital building. 6M

**Unit - III**

- 5 Give a detailed note on noise and acoustic comfort. How do you design a building for thermal comfort? 10M

**OR**

6. Give a detailed note on ventilation comfort. Explain the design for ventilation comfort. 10M

**PART – B****30 Marks****Unit - IV**

7. Draw a neat sketch of an odd and even course of English bond for a one and half brick wall. 10M

**OR**

8. Explain King post truss roof with a neat sketch. 10M

P.T.O

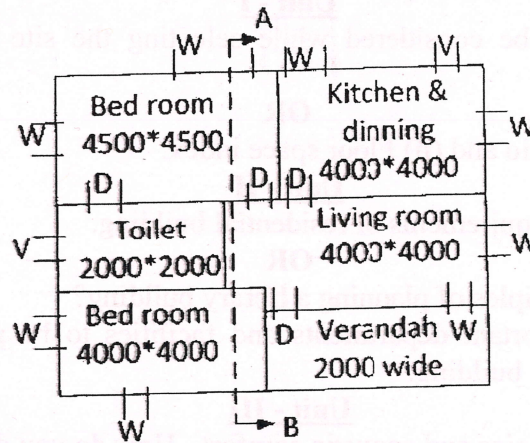
Unit - V

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 The line diagram of the plan of a residential building is shown below. 20M

Specifications:

Thickness of super structure wall = 200mm

Depth of foundation = 1200mm

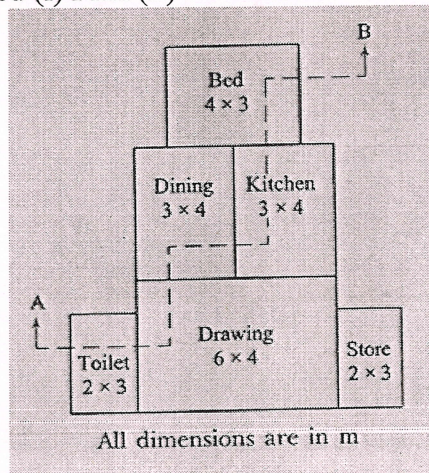
Height of the building = 3m

Height of plinth above GL = 0.9m

Provide standard dimensions for doors, windows and ventilators.

Assume any other suitable data.

Draw a neat dimensioned (i) Plan (ii) Sectional elevation along AB.



\*\*\*END\*\*\*