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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

B.Tech II Year II Semester Supplementary Examinations October-2020
BUILDING PLANNING & DRAWING

(Civil Engineering)

Time: 3 hours

Max. Marks: 60

PART –A

30 Marks

Unit -I

- 1** Explain the terminology in building bye laws? Mention the objectives of building byelaws? **10M**

OR

- 2** Explain the following: **10M**
- i) Height of the building
 - ii) Wall thickness
 - ii) Lighting and ventilation requirement
 - iv) Safety from fire
 - v) Drainage and sanitation

Unit –II

- 3** Describe the important departments and facilities to be provided in the layout of hospital building? **10M**

OR

- 4** a Explain the different principles used while planning an industrial buildings in an industrial area. **5M**
b Explain the key factors to be considered in the design of an educational institution. **5M**

Unit –III

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

OR

- 6** Briefly explain in detail about the various fire safety aids adopted in building. **10M**

PART –B

30 Marks

Unit –IV

- 7** Draw the conventional signs for the following: **10M**
- i) Concrete
 - ii) Stone
 - iii) Plaster
 - iv) Sand filling
 - v) Earth

OR

- 8** Draw the front elevation and sectional plan of a paneled window to fit in an opening of 1200 mm x 1200 mm and label the parts. **10M**

Unit -V

- 9 Figure shown below gives the line drawing of a residential building, draw to a scale of **20M** the following: (a) Plan. (b) Section along AB. (c) Front elevation.

The following specifications are to be adopted:

Foundation: Depth 1000 mm. C.C bed 1000 mm x 300 mm.

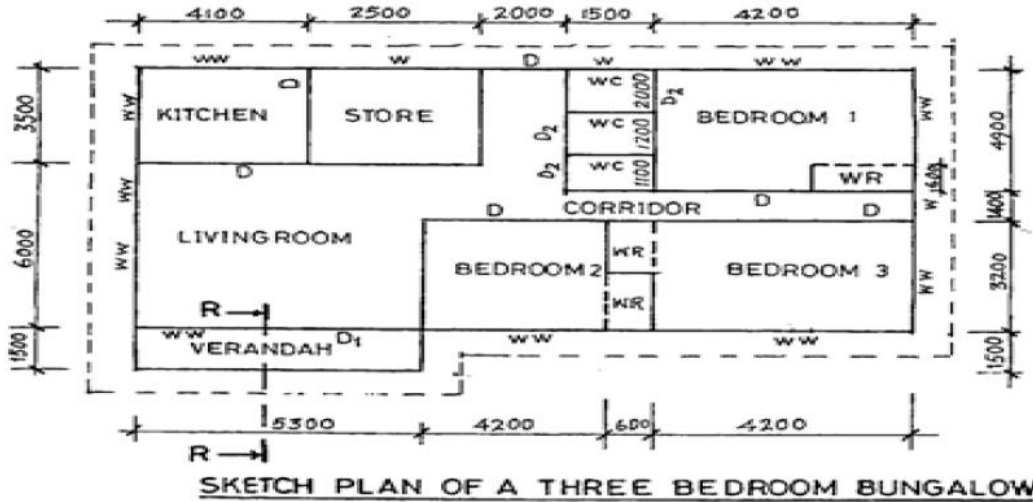
Two footings with an offset of 50 mm and 250 mm thickness each.

Basement: 600 mm high, thickness of wall at this level is 400 mm.

Walls: Brick masonry in C.M.1:6, 300mm thick

Roof: R.C.C slab 120mm thick.

Provide the details of doors, windows, ventilators and steps etc. as per standard dimensions.



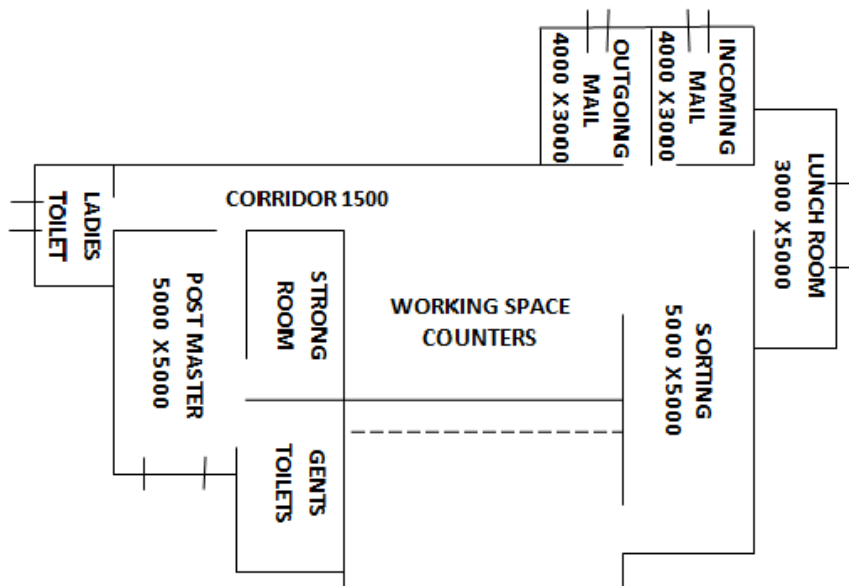
SKETCH PLAN OF A THREE BEDROOM BUNGALOW

(Assume suitable dimensions where necessary)

OR

- 10 Draw plan, section and elevation for the following line drawing: (Provide standard dimensions for doors, windows and ventilation)

20M



PLAN

NOT TO SCALE
ALL DIMENSIONS ARE IN MM

*** END ***