

Reg. No.

--	--	--	--	--	--	--	--	--	--

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

IV B.Tech. I Semester Regular Examinations November 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

PART – A**30 Marks****Unit - I**

- 1 Explain briefly about the requirements of (i) open spaces and (ii) height of the buildings, according to building bye – laws. 10M

OR

- 2 a. What are the various factors to be considered in the selection a site for residential buildings? 6M
b. Explain the grouping principle of planning of building. 4M

Unit - II

- 3 What are the requirements for the following rooms in planning of residential building? 10M
(i) Drawing room (ii) Bed room (iii) Bath room

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 Write short notes on the following components of building automation system. 10M
(i) HVAC (ii) Electrical lighting (iii) Security

OR

6. Write short notes on the following. 10M
(i) Thermal comfort (ii) Ventilation comfort (iii) acoustic comfort.

PART – B**30 Marks****Unit - IV**

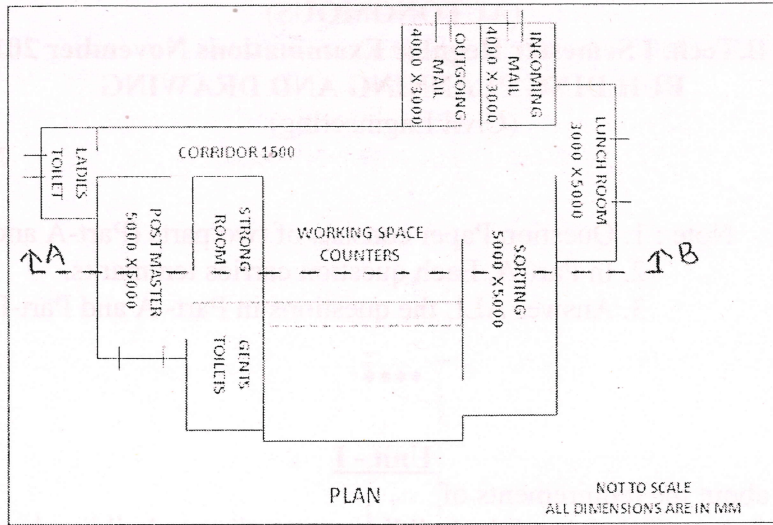
7. a. State the merits and demerits of English bond and Flemish bond. 5M
b. Draw neat sketches showing the sign conventions for the following. 5M
(i) Glass (ii) Wood across grain (iii) Earth

OR

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

Unit - V

9. Draw plan, section and elevation for the following line drawing. Provide standard dimensions for doors, windows and ventilators. 20M



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

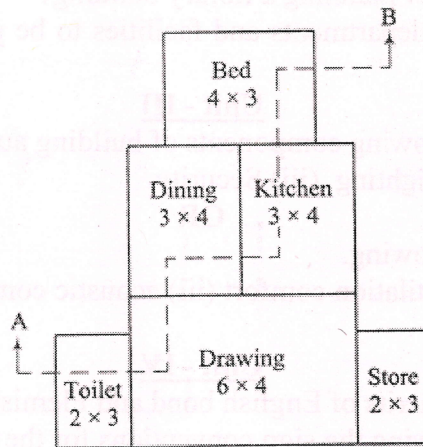
Height of the building = 3m

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.



All dimensions are in m

END