Q.P. Code: 16CE110 **R16**

Reg. No: | | | | | | | | | | |

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

(AUTONOMOUS)

B.Tech II Year II Semester Supplementary Examinations July-2021

BUILDING PLANNING & DRAWING

(Civil Engineering)

Time: 3 hours Max. Marks: 60

(Answer all Five

PART –A(30 Marks)

UNIT-I

1	Explain the various types of residential buildings with neat sketches?	**10M**

OR

2	Explain the following terms: i) Orientation of a building ii) Aspect iii) Prospect iv) Privacy v) Economy	**10M**

UNIT-II

3	What are the various rooms provided in residential building and explain it briefly?	**10M**

OR

4	What are the requirements for the following rooms in planning of residential building? i) Dining room ii) Drawing room iii) Kitchen iv) Bedroom	**10M**

UNIT-III

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

OR

6	Explain the components of building automation system? i) HVAC ii) Electrical lighting	**10M**

Part B(30 Marks)

UNIT-IV

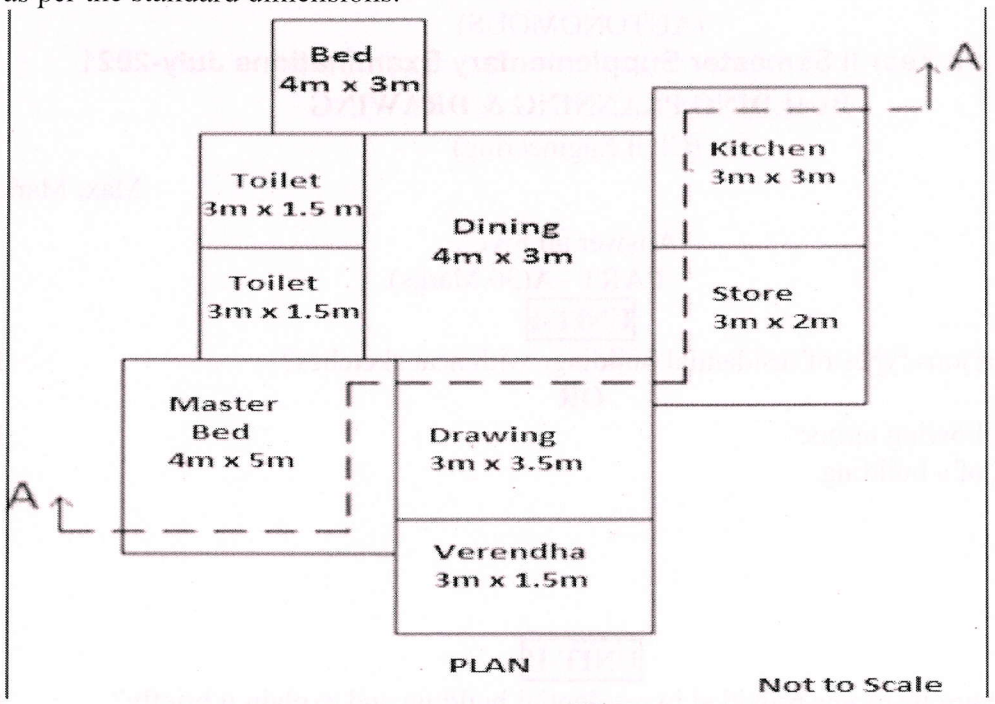
7	Draw the conventional signs for the following: i) Concrete ii) Stone iii) Plaster iv) Sand filling	**10M**

OR

8	Draw to suitable scale the front elevation of Queen post truss indicating all details for a clear opening of 7000 mm	**10M**

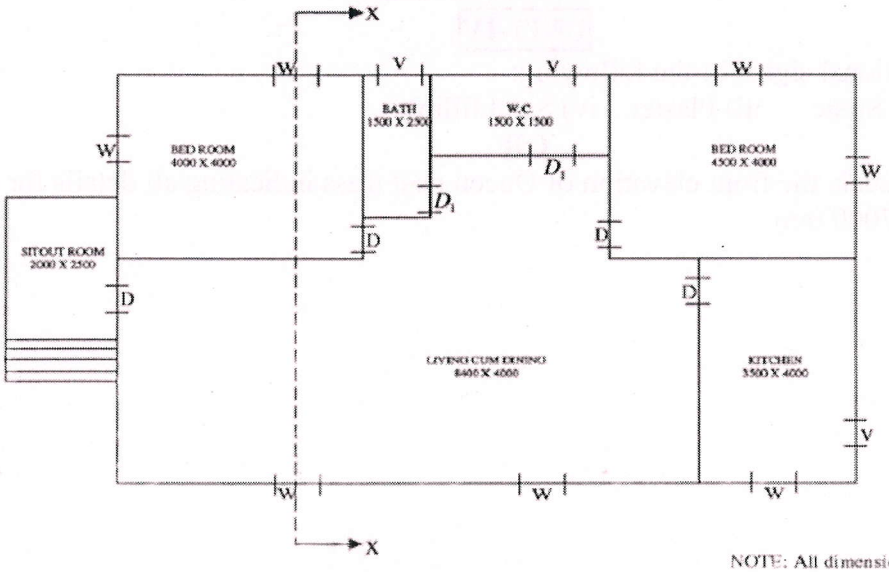
UNIT-V

9 The line diagram for a plan of a residential building is provided below: Draw a neat diagram of the plan and section AA of the same. Assume all data required as per the standard dimensions. **20M**



OR

10 The line sketch of a residential building is shown in figure below: Draw **20M**
(i) A neat dimensioned plan.
(ii) Sectional elevation along AB, to a suitable scale, using the following specification.
Specifications: Foundations: CC 1:4:8 800 mm wide and 300 mm thick
Footings: Rubble stone masonry: 600 mm x 500 mm.
Basement: Coursed rubble masonry: 400 mm wide and 700 mm high.
Superstructure: Brickwork in C.M 1.5:300 mm wide and 300 mm high.
R.O.C roofing: 100mm thick.



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