U.S.N.										

B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

October 2023 Semester End Main Examinations

Programme: B.E **Semester: IV**
Branch: Civil Engineering **Duration: 3 hrs.**
Course Code: 19CV4PCBPD **Max Marks: 100**
Course: Building Planning and Drawing

Instructions: 1. Unit I is compulsory question. Unit II & III has choice.
2. Missing data, if any, may be suitably assumed and mentioned.

Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.

UNIT - I

1 The line sketch of a residential building is given in Fig 1. Draw to suitable scale (All dimensions are in mm) **60**

a. Plan at sill level b. Front elevation c. Section
d. Schedule of openings along with FAR and coverage

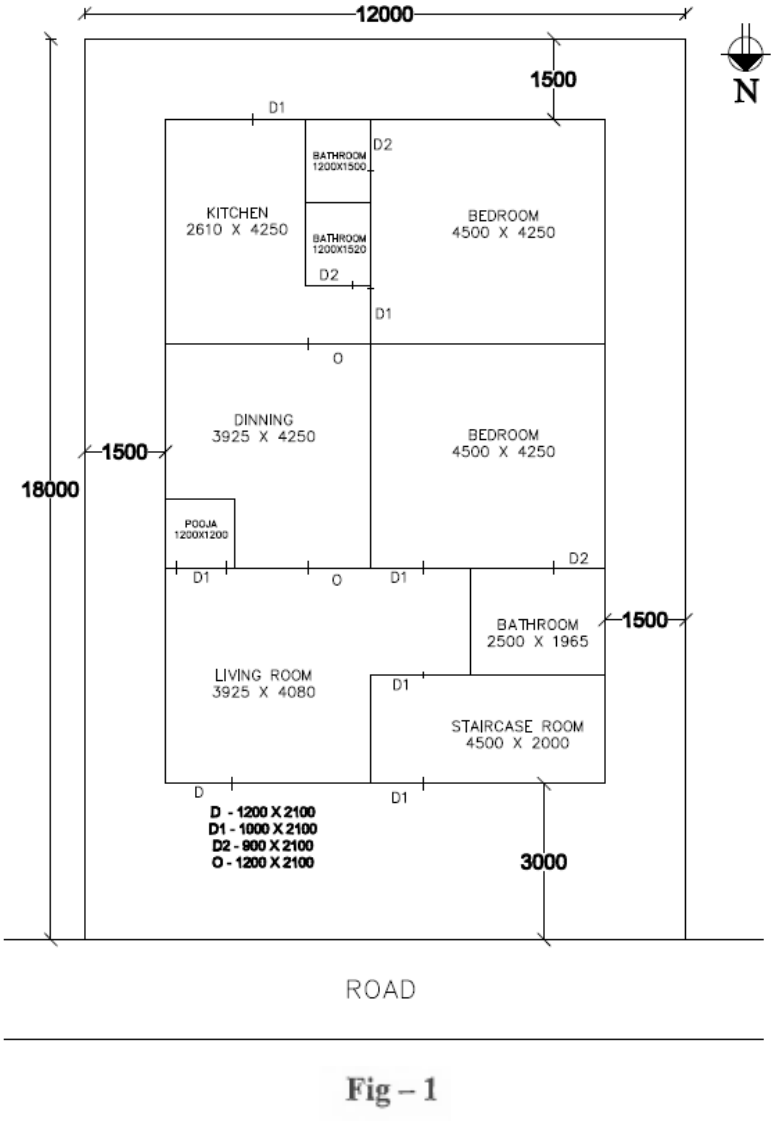

Fig – 1

UNIT - II

2 Draw a dog-legged staircase that is needed to connect two floors separated by 3.20m height, with the staircase room of size 3.8 x 2.1m. Draw sectional elevation showing both the flights and plan **20**

OR

3 a) Draw to suitable scale the sections and elevation of a three paneled single shuttered door for an opening of 1m x 2.1m **10**

b) Draw the detailed sketch of a stepped foundation for a wall thickness of 300mm, a section passing through a door having lintel, chejja with suitable dimensions. A foundation depth of 1.2m in three courses and basement of 60cm **10**

UNIT - III

4 Prepare a bubble diagram and develop a line diagram for a primary health centre, with the following requirements: **20**

a. Doctor's consulting room 2 (with attached bathroom)
b. First aid room or treatment room
c. Nurse room
d. Medical store
e. Laboratory
f. Store room
g. General ward
h. Toilet block for men & women (separately)

OR

5 Prepare the water supply and sanitary layout for a residential building shown in fig 2 with suitable notations (All dimensions are in meters) **20**

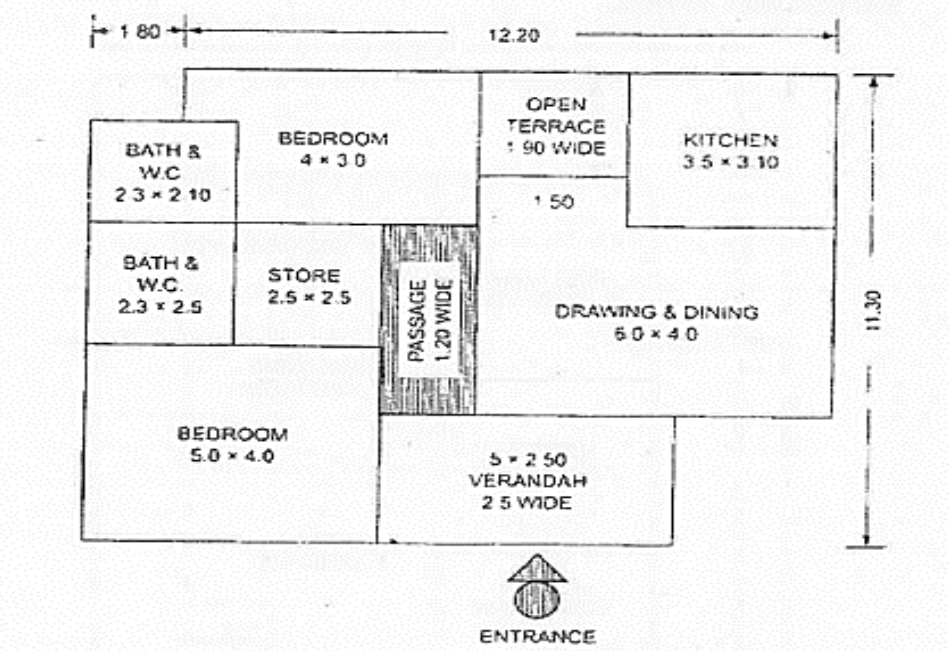

Fig – 2

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