

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

Autonomous Institute Affiliated to VTU

September / October 2023 Supplementary Examinations

Programme: B.E

Branch: Civil Engineering

Course Code: 19CV4PCBPD

Course: Building Planning and Drawing

Semester: IV

Duration: 4 hrs.

Max Marks: 100

Date: 13.09.2023

Instructions: 1. Unit I is compulsory question. Unit II & III has choice.

2. Missing data, if any, may be suitably assumed and mentioned.

UNIT - I

1

Draw to a suitable scale the plan, elevation and section of the residential building shown in fig-1. Also provide details of area statement and schedule of openings and Floor area ratio. Take external walls as 300mm and partition walls as 200mm.

60

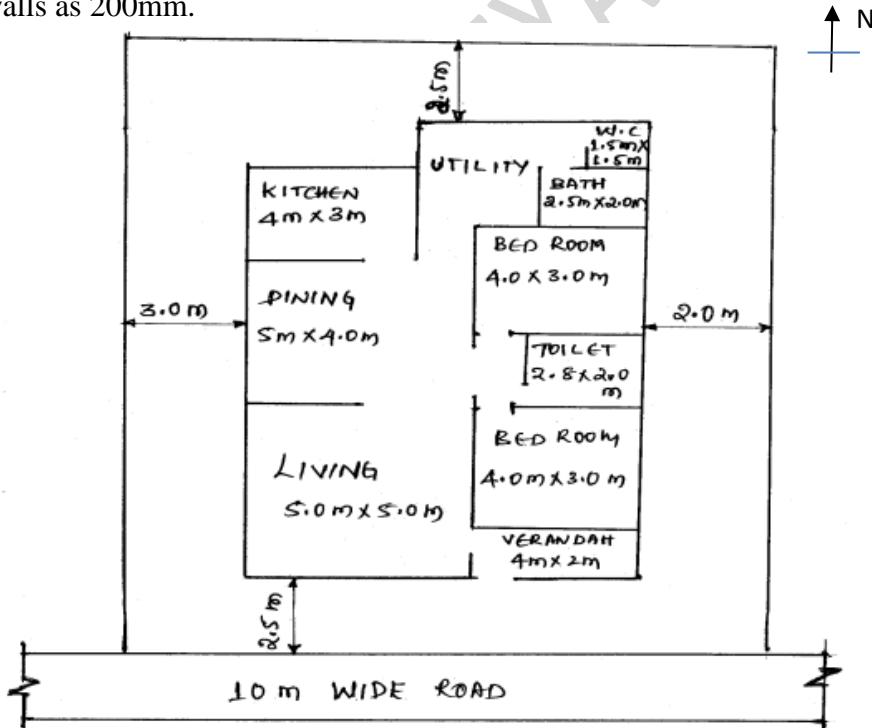


Fig-1

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 - II

2

Draw the cross section and Plan of a RCC dog legged stair for a building having the following details. Clear stair hall size 2.5 X 5.5 m, width of landing is 1.2m, width of each flight is 1.2m, Rise = 150mm, Tread = 300mm. Thickness of Waist Slab = 150mm. Floor to floor height 3.6m

20

OR

3 Draw to a scale, the elevation and plan of fully paneled door for an opening of 1.2 m X 2.1m. **20**

UNIT - III

4 Prepare bubble diagram and develop the line diagram for the primary health centre to suitable scale. The following are the particular shall be provided: **20**

1) Entrance lobby	6) Dispensary
2) Doctors room	7) Store room
3) Examination room – 2 No.	8) Gents toilet
4) Minor operation theatre	9) Ladies toilet
5) Nurse room	10) Technician room

OR

5 The line diagram of a single storied residential building is shown in Fig – 1. Develop to a suitable scale the water supply and sanitary layout for the building. **20**
