

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

Autonomous Institute Affiliated to VTU

June 2025 Semester End Main Examinations

Programme: B.E.

Semester: IV

Branch: Civil Engineering

Duration: 4 hrs.

Course Code: 22CV4PCBPD

Max Marks: 100

Course: Building Planning and Drawing

Instructions: 1. Answer compulsory question from UNIT-1 and UNIT-3, any one question from UNIT-2.
2. Missing data, if any, may be suitably assumed and to be mentioned.

		UNIT – I	<i>CO</i>	<i>PO</i>	Marks
1		<p>Prepare a bubble diagram for a proposed PWD office building with the following requirements;</p> <p>i. AEE room $4m \times 3m$ with attached toilet ($2.5m \times 1.4m$). ii. AE room $3m \times 3m$ with attached toilet ($2.5 m \times 1.4 m$). iii. Manager room $4m \times 3m$. iv. Technical staff room $4m \times 4m$. v. Drafting room $4m \times 6m$. vi. Clerical staff room $4m \times 3m$. vii. Accountant and related staff room $4m \times 3m$. viii. Store keeper and related staff room $6m \times 4m$. ix. Toilet block for men and women separately.</p>	<i>CO 1,</i>	<i>PO2,3</i>	20
		UNIT – II			
2		The internal dimension of the stair case room is $3.5m \times 7.0m$. Draw the Plan and Sectional Elevation of the dog-legged stair. Take floor to floor height as $3.3m$ & width of Stairs is $1.5m$.	<i>CO 2</i>	<i>PO2,3</i>	20
		OR			
3		Draw to a suitable scale a single shutter 4 panel teak wood door of size $1.20m \times 2.10m$	<i>CO 2</i>	<i>PO2,3</i>	20

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 - III

4

The line sketch of a residential building is shown in Figure 1. Draw the following to a suitable scale. Also provide the details of standard schedule of openings, plot coverage and FAR. Take load bearing walls are of 300 mm thick and internal walls are of 100 mm thick.

- i) Plan
- ii) Front elevation and
- iii) Section showing maximum details.

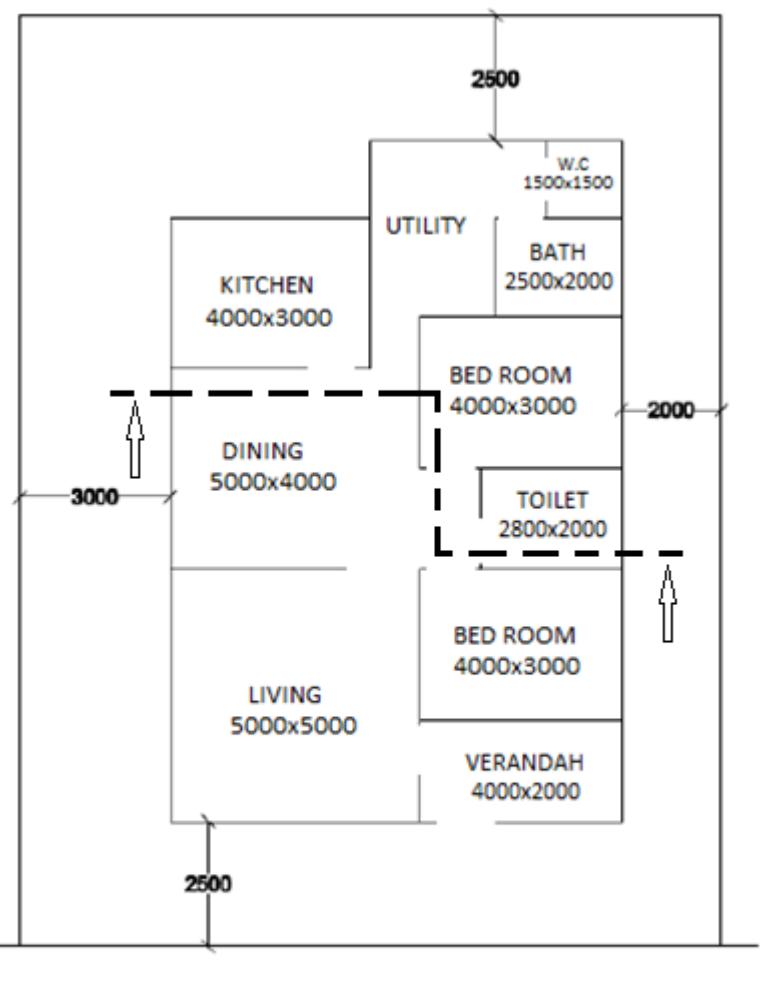


Figure 1
