

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

Autonomous Institute Affiliated to VTU

## July / August 2024 Semester End Main Examinations

Programme: B.E.

Branch: Civil Engineering

Course Code: 19CV4PCBPD

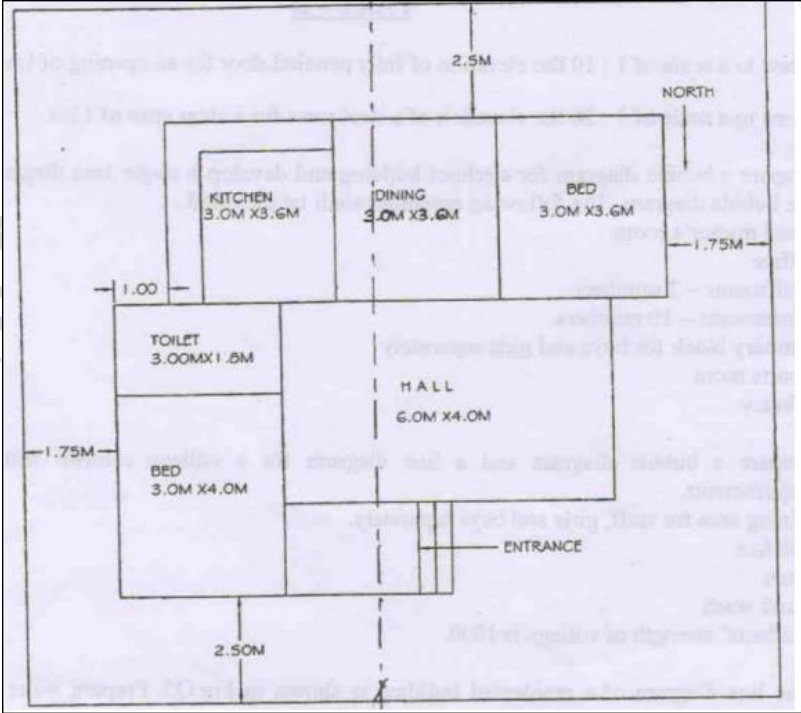
Course: Building Planning and Drawing

Semester: IV

Duration: 4 hrs.

Max Marks: 100

- Instructions:** 1. Answer compulsory question from unit 1 and two questions from remaining units by selecting at least one question from each unit.  
2. Missing data, if any, may be suitably assumed and to be mentioned.

		UNIT – I	CO	PO	Marks
			CO 1	PO2	60
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.	1	<p>The line diagram of a residential building is given in Fig-1.</p> <p>Draw to a suitable scale, a) Plan at sill level, b) Front elevation, c) Section on X – X, d) Schedule of openings. e) Plot Coverage, Carpet Area and FAR if the plot size is 14 x 15 m</p> <p>Note: All load bearing walls are of 200 mm thick and internal walls are of 100mm thick, BBM built on SSM foundation. Roof is RCC and the roof height is 3.3 m from floor finish. Lintel level is 2.1m above the plinth level. Assume suitable size of openings.</p> 			
		Fig-1			

			<b>UNIT – II</b>			
	2		Geometrically design an Dog legged stair case for a residential building having a floor to floor clear height of 3 m. Internal dimensions of the stair case room is 3500 mm x 5500 mm with a wall thickness on 3 sides to be 250 mm and open on one of its shorter side. Draw Plan and Sectional Elevation of the staircase.	<i>CO 2</i>	<i>PO2</i>	<b>20</b>
			<b>OR</b>			
	3		Draw a steel roof Truss of Span 18m	<i>CO 2</i>	<i>PO3</i>	<b>20</b>
			<b>UNIT - III</b>			
	4		Develop to a suitable scale the water supply, sanitary and electrical layout for the 2bhk Single storied building shown in Fig-1.	<i>CO 3</i>	<i>PO3</i>	<b>20</b>
			<b>OR</b>			
	5		Draw the bubble diagram for a primary school building and develop a single line diagram to a suitable scale	<i>CO 3</i>	<i>PO3</i>	<b>20</b>

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