

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

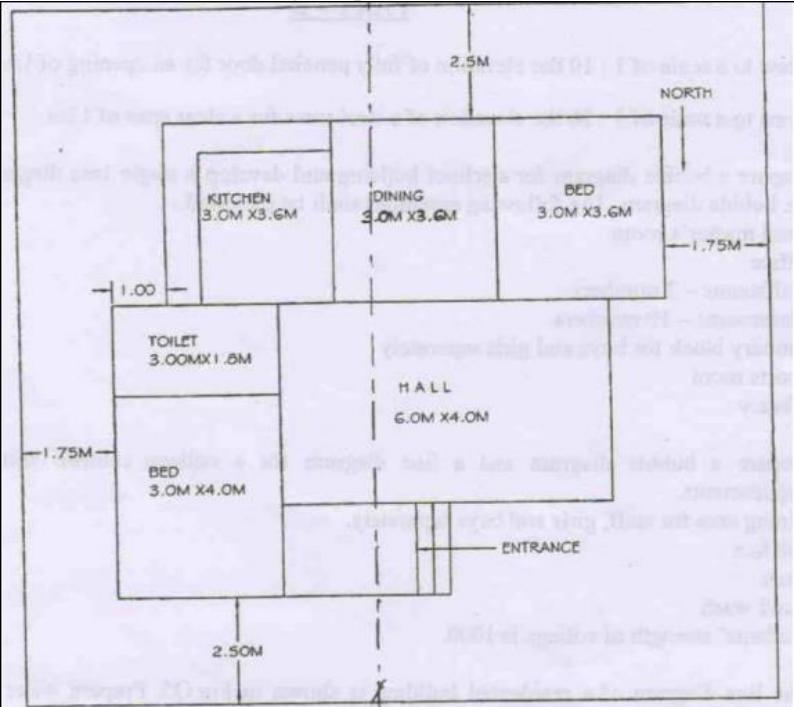
Course: Building Planning and Drawing

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
1		<p>The line diagram of a residential building is given in Fig-1.</p> <p>Draw to a suitable scale,</p> <p>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> 	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.

Fig-1

		UNIT – II			
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.	CO 2	PO2	20
		OR			
3		Draw a steel roof Truss of Span 18m	CO 2	PO3	20
		UNIT - III			
4		Develop to a suitable scale the water supply, sanitary and electrical layout for the 2bhk Single storied building shown in Fig-1.	CO 3	PO3	20
		OR			
5		Draw the bubble diagram for a primary school building and develop a single line diagram to a suitable scale	CO 3	PO3	20

B.M.S.C.E. - EVEN SEM 2023-24