U.S.N.										

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

Autonomous Institute Affiliated to VTU

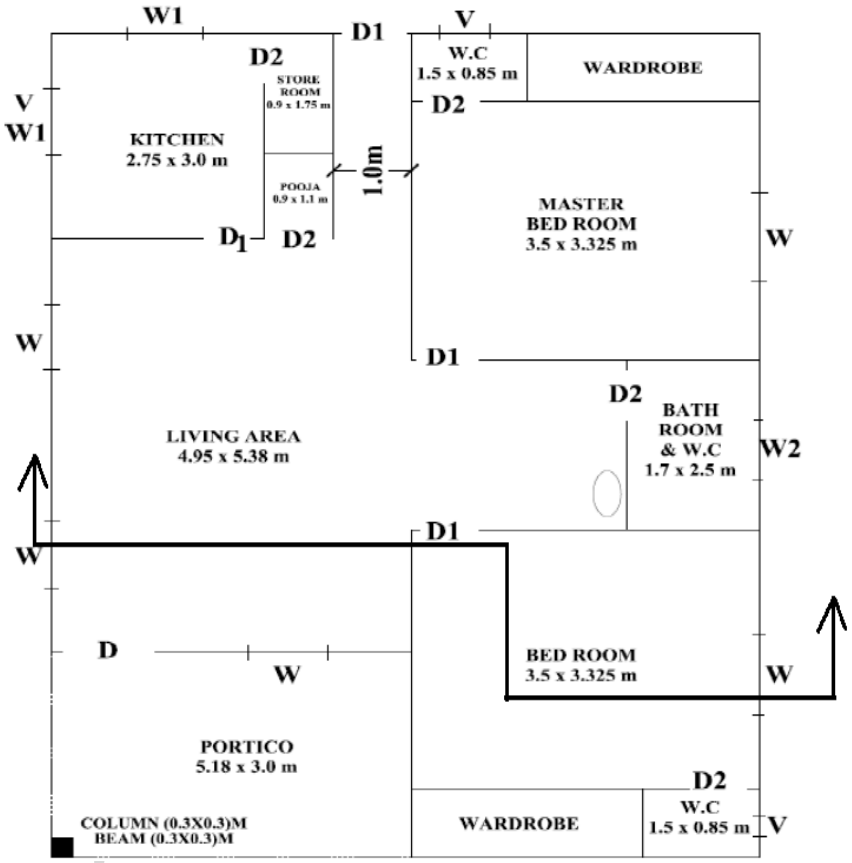
February 2025 Semester End Main Examinations

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.

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.

			CO	***PO***	**Marks**
		UNIT – I			
1		Prepare a bubble diagram (connectivity diagrams) and develop line diagram for primary health centre, with following facilities. i) Entrance and waiting space, ii) Doctor's room – 2 nos, iii) Examination room, iv) Operation theatre, v) Medical store, vi) Office, vii) Laboratory, viii) Male – 10 beds, ix) Female ward – 10 beds, x) Toilet block. Also, provide the schedule of openings.	***CO*** 1	***PO2***	**20**
		UNIT – II			
2		Draw to a suitable scale the working drawing for an isolated footing for a column of size 250×450mm reinforced with 6 numbers of 16mm dia HYSD bars together with 8mm dia stirrups at 200mm c/c, size of footing 1.50m ×1.50m with the thickness of footing depth 400mm. The footing mat comprises of 12mm dia HYSD bars @ 140mm c/c both ways. Thickness of PCC is 100mm.	***CO*** 2	***PO2,3***	**20**
		OR			
3		The internal dimension of the stair case room is 3.5m×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.	***CO*** 2	***PO2,3***	**20**

			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 230 mm thick and internal walls are of 150 mm thick. i) Plan ii) Front elevation and iii) Section showing maximum details.  Figure 1	***CO*** 1	***PO2,3***	**60**

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