U.S.N.										

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

Autonomous Institute Affiliated to VTU

December 2023 Supplementary 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. Unit II has choice. Unit III is compulsory question.
2. Missing data may be assumed appropriately and mentioned.
3. IS:962 may be allowed.

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 - I	*CO*	*PO*	Marks
1		Design a High School building with a plinth area of about 3000 Sq.m (to serve 500 students) on a site measuring 60m x 90m of which 60m side faces road and towards North. Draw the bubble diagram (connectivity diagram) and a line diagram for the following requirements: a) Waiting room. b) Head master's Room with Attached Toilet. c) Office room. d) Class rooms. e) General toilets. f) Store room and Laboratory hall.	*CO3*	*PO3*	**20**
		UNIT - II			
2		Draw to a suitable scale front elevation, plan and section of a double shutter glazed teak wood window of size 2.0m x 1.5m	*CO2*	*PO3*	**20**
		OR			
3		The internal dimension of the stair case room is 3.6m x 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 1.8m.	*CO2*	*PO3*	**20**
		UNIT - III			
4		Draw to a suitable scale the plan, elevation and section of the residential building shown in fig-1. Plot dimensions are 9m x 12m. Also provide details of area statement and schedule of openings and Floor area ratio. Note: All load bearing walls are of 230mm thick and internal walls are of 115mm thick, BBM built on SSM foundation. Roof is RCC and the roof height is 3.0m from floor finish. Lintel level is 2.1m above the plinth level.	*CO1*	*PO3*	**60**

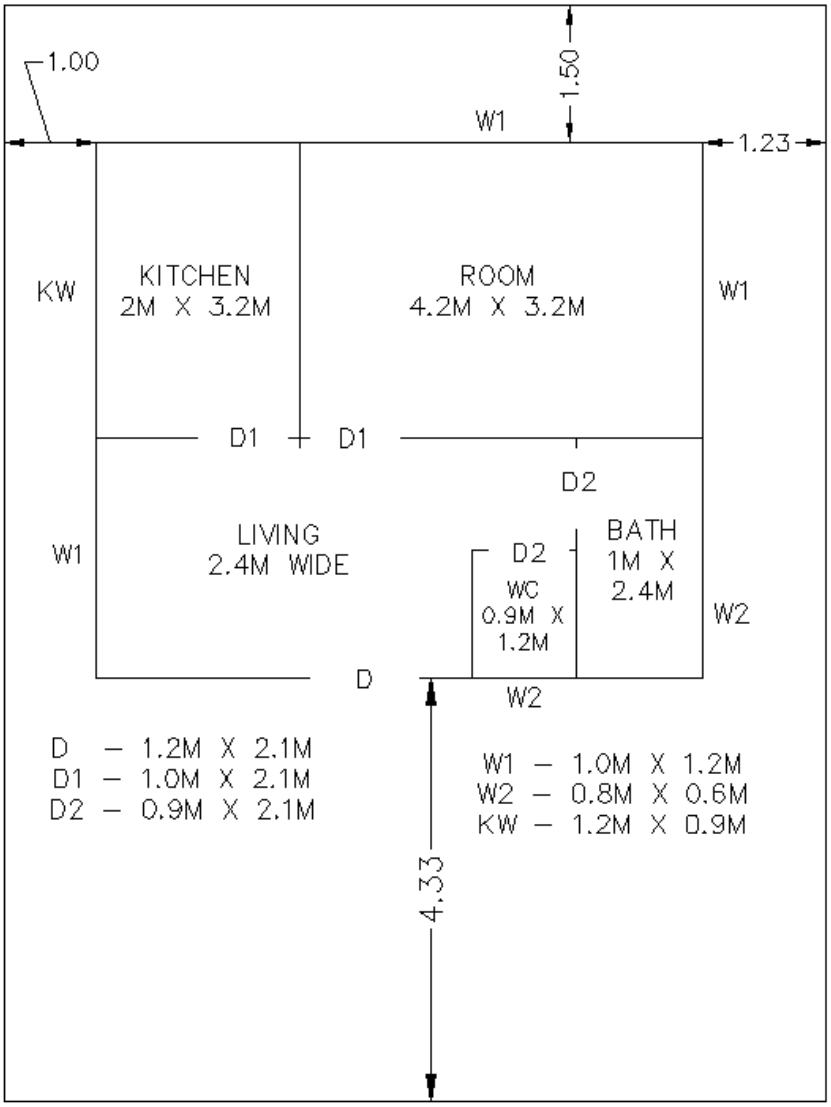

Fig-1

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