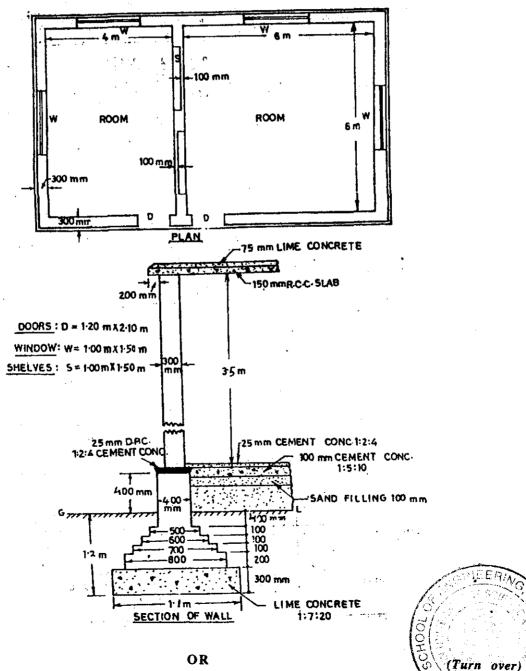
B.Tech. Degree VIII Semester (Supplementary) Examination in Civil Engineering (Habitat Engineering and Construction Management), October 2002

CE 802 QUANTITY SURVEYING AND VALUATION

Time: 3 Hours Maximum Marks: 100

(Assume suitable data, if necessary)

- I. A residential building is shown in the sketch. Estimate the quantities for the following and also the cost assuming suitable rate for the building:
 - (i) Earth work excavation in ordinary soil in foundation
 - (ii) Lime concrete in foundation
 - (iii) First class brick work in C.M 1: 6 in foundation upto plinth
 - (iv) First class brick work in lime mortar for superstructure. (40)



	2	,
t.	ΔM . The second contribution is the second contribution of ΔM	33.71
11.	Work out the quantities of concrete and reinforcement for a RCC lintel used span of 2m and has 200 mm bearing on the wall on either side. Lintel has diameter four main bars which have been bent up 45° at 320mm from ends 2 anchore bars at the top side 6mm diameter. The lintel has 6mm diameter stirrups at 130mm c/c through out the length of the lintel. Also prepare the	s 10 mm s. There are r vertical
	of bars.	
III.	Write the detailed specifications for	
111.	(i) Earth work excavation (ii) First class brick work (iii) RCC	
	(iv) Wood work OR	
IV.	Define analysis of rates, what are the factors affecting the analysis of rates'	?
V. (a)	Explain the terms:	
(b)	(i) Market value (ii) Depreciatio (iii) Free hold property Explain straight line method and constant percentage method.	n J
, , ,	OR	
VI. (a) (b)	What are the different methods to find out the present day cost of a buildin Find the capital value of house which has been let out for Rs.1000/- per n inclusive of all the taxes. The house is in good condition and well mainta	nonth ined.
	Total outgoings amount to 18% of the gross rent and expected rate of retu Future life of building 60 years.	In is 8%.
VII.	A newly constructed building stands on a plot costing Rs.60000/ The cost of the building is Rs.200000/- and the estimated life of the building if The investor desires to have 8% return on the construction cost and 5% recost. Assuming annual repairs to be at 0.5% of the cost of construction a outgoings at 30% of the gross rent, calculate the annual rent that will have for the building. The annual instalment of the sinking fund for a life of 60 the building at 3% may be taken as 1/2 paisa per rupee.	is 66 years. turn on the lan nd other e to be charged
VIII.	An RCC framed structure building having estimated future life 80 years, for annual rent of Rs.2,220/- per month. Work out its capitalized value on the net yield. The rate of compound interest for sinking fund may be taken 40 of above building measures 1400 sqm and cost of land may be taken to be the other outgoings are - (i) repair and maintenance 1/12 th of gross income.	ne basis of 6% %. The land p
	(ii) Municipal taxes and miscellaneous charges 7% of gross. The plinth area of the building is 800 sqm and plinth area rate of the above building may be taken as Rs.150/- per sqm.	
