

***B. Tech Degree VIII Semester (Supplementary) Examination
September 2010***

**CE 801 A/B QUANTITY SURVEYING AND VALUATION
(2002 Scheme)**

Time : 3 Hours

Maximum Marks : 100

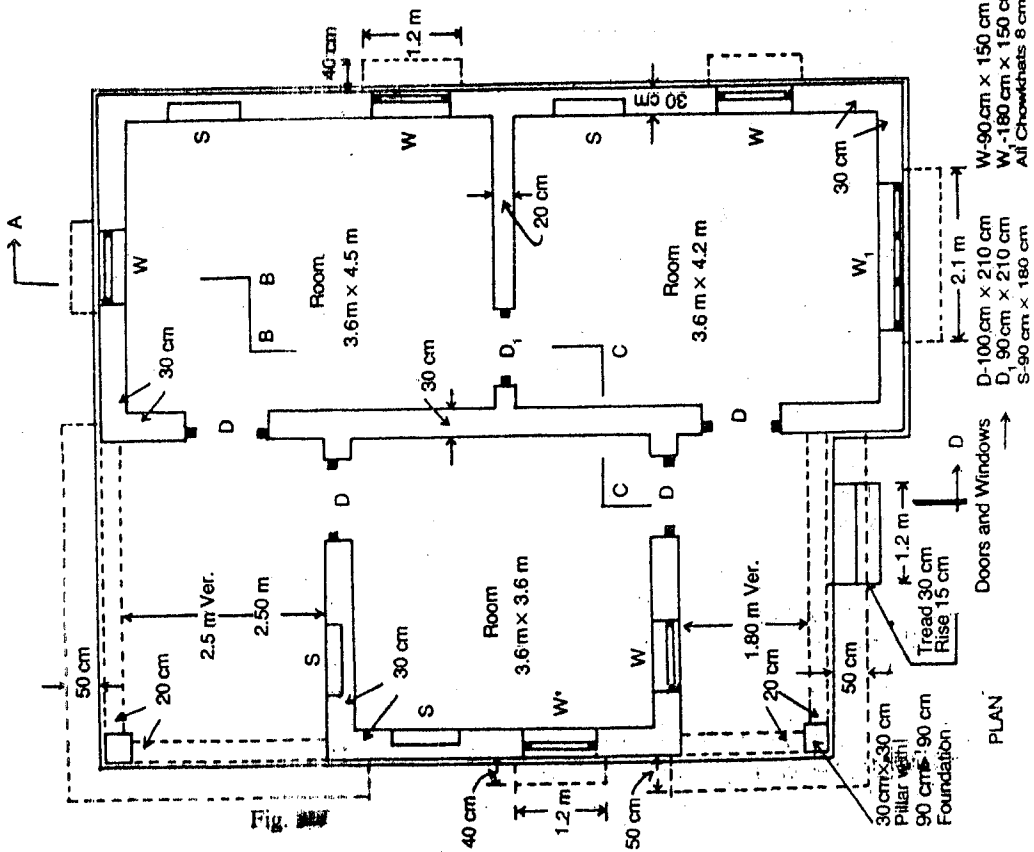
- I. The plan and sectional elevation of a building are given in Figure 1(a) and (b). Estimate the quantities of the following items of work of the building.
- (i) Earthwork excavation for foundation.
 - (ii) First class brick work in lime mortar in foundation and plinth.
 - (iii) First class brickwork in 1:6 cement mortar in super structure including parapet.
 - (iv) RCC work in roof slabs, lintels, sunshades etc. (40)
- OR**
- II. Prepare a detailed estimate of R.C.C. staircase from the given plan and section Figure 2 (a) and (b), complete with an abstract of quantities and cost. (40)
- III. Write down the detailed specifications of
- (i) Cement concrete 1 : 2:4
 - (ii) Reinforced cement concrete
 - (iii) Brickwork 1st class
 - (iv) Plastering with cement mortar. (20)
- OR**
- IV. Find out the rates per cubic metre of
- (i) Cement concrete 1 : 2 : 4
 - (ii) R.C.C work in beams etc. 1 : 2 : 4 (20)
- V. (a) Define the following :-
- (i) Value
 - (ii) Market value
 - (iii) Sentimental value
 - (iv) Free tenure (10)
- (b) A machine was purchased for Rs.12000/-. Assuming its salvage value at the end of 6 years to be Rs.3000/-, determine the amount of depreciation for each year by sinking fund method. (10)
- OR**
- VI. (a) Explain the comparative method of valuation for open land. (10)
- (b) Explain the rental method of valuation of land with building. (10)
- VII. (a) A free hold property having an area of 800m² is jointly held by four brothers and it is fully developed. It consists of basement, ground floor, first, second and third floors. The structure is used as a college building and the owner receive a monthly rent of Rs.8000/-. The usual outgoings may be taken as 20% of gross annual rent. Work out the share of each owner in the property. (10)
- (b) Explain -
- (i) Belt method
 - (ii) Hypothetical building scheme method. (10)

OR

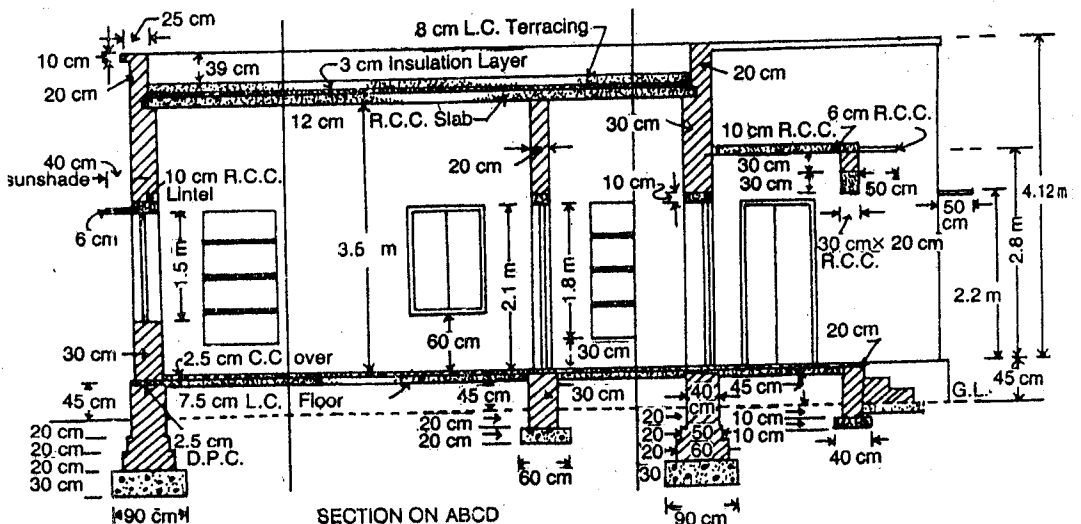
(P.T.O)

- VIII. (a) A building of replacement value of about Rs.70000/- stands on a main road on a lease hold plot. The ground rent per annum is Rs.295/-. The building is RCC framed, with a future life of 70 years. Rent of the building is Rs.400 per month. Taxes : 18% of gross rent. Insurance premium : 0.5% of gross rent. Assume usual outgoings and other necessary data determine the capitalized value on the basis of 5% net yield. Sinking fund coefficient for replacement of capital in 70 years at 3% is 0.0043. (15)
- (b) Differentiate gross rent and net rent. (5)

THREE ROOMED BUILDING WITH FRONT AND BACK VERANDAH



(a)

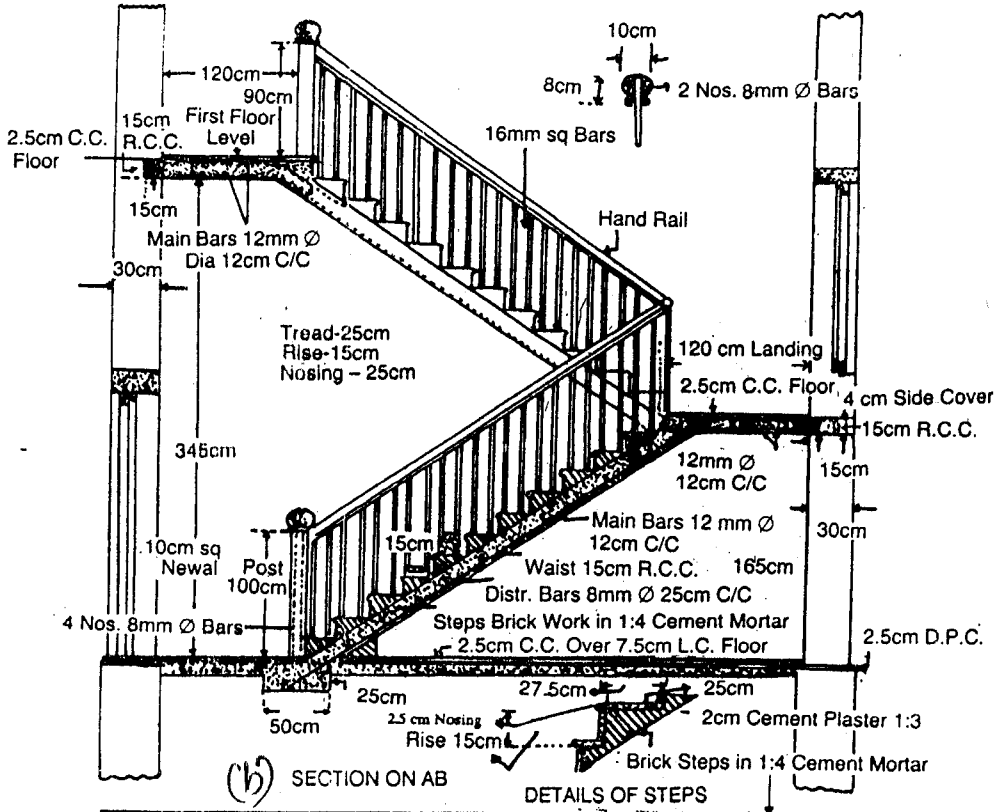


(b)

(Contd....3)

(Figure 1(a) and (b))

R.C.C. STAIRCASE



(Figure 2 (a) and (b))

