B. Tech Degree VIII Semester Examination, April 2008

CE 802 QUANTITY SURVEYING AND VALUATION
(1999 - 2001 Scheme)

Time : 3 Hours   Maximum Marks : 100

(Assume suitable data if necessary)

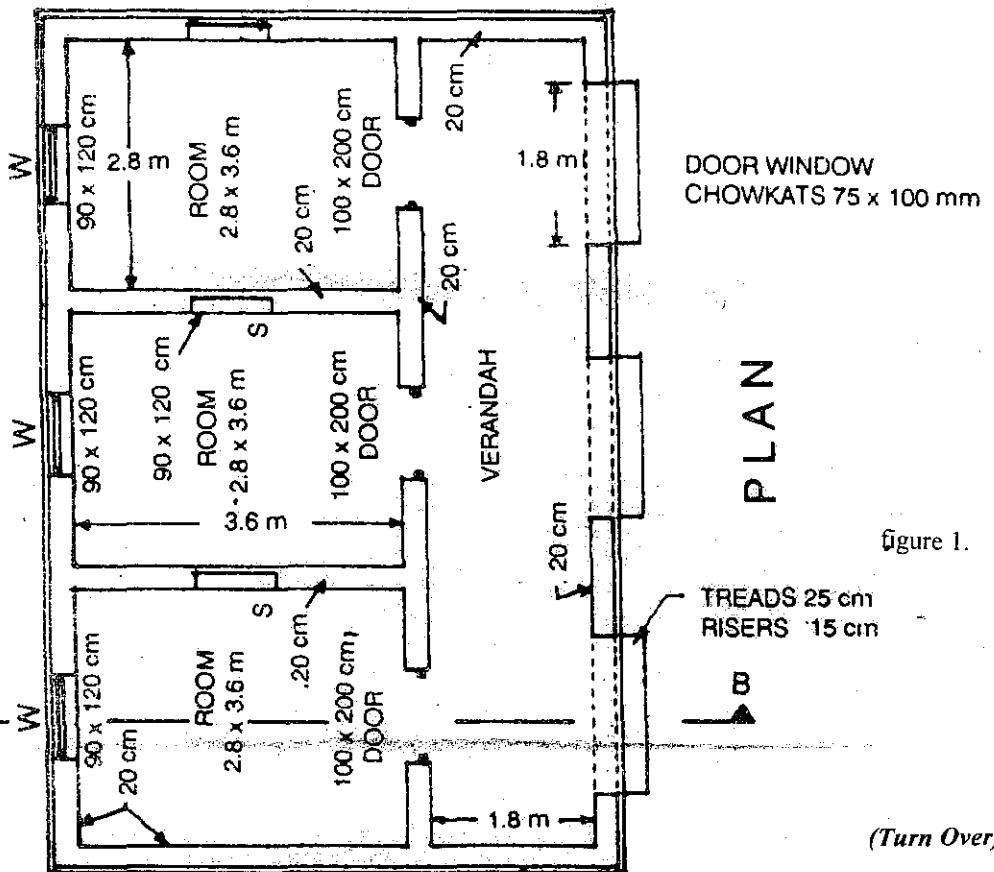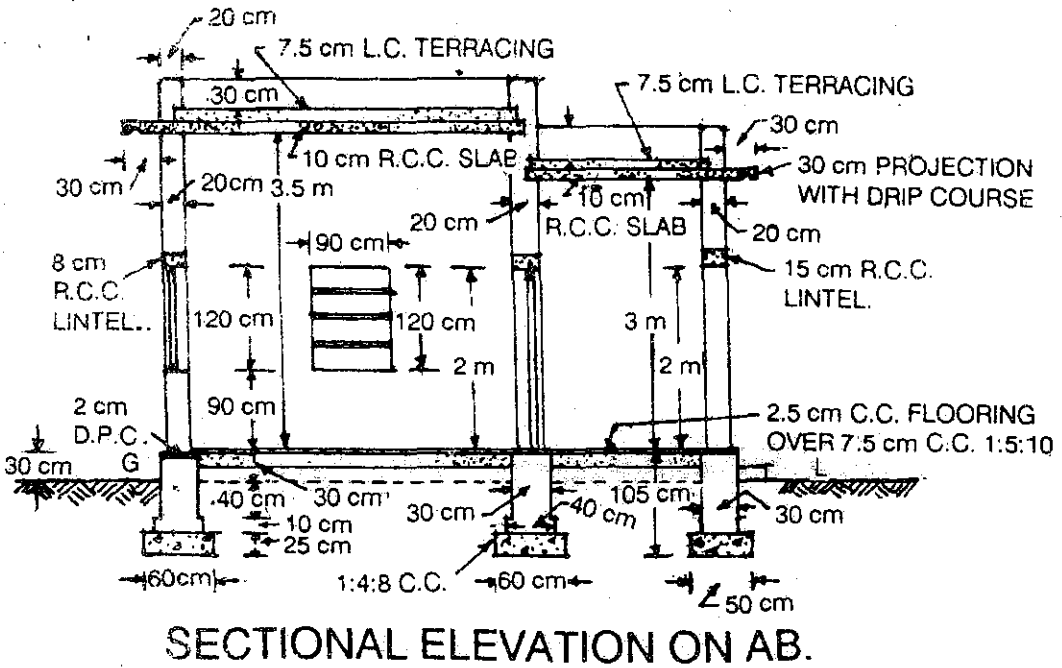I.   Estimate the quantities of the following items of work for the building shown in figure 1.

SECTIONAL ELEVATION ON AB.

PLAN

DOOR WINDOW
CHOWKATS 75 x 100 mm

figure 1.

TREADS 25 cm
RISERS 15 cm

(i)   Earth work in excavation for foundation

(ii)   Brick work in line mortar for foundation and basement

(iii)   D P C

(iv)   Earth work in filling in plinth

(v)   Cement pointing 1:3

(vi)   Painting wood works.   (40)

<div align="center">OR</div>

II.   Prepare a detailed estimate of a RCC roof slab of 3 m clear span and 6 m long from the given figure 2. RCC work including centering and shuttering and steel reinforcement in detail shall be taken separately. Also prepare bar bending schedule.   (40)
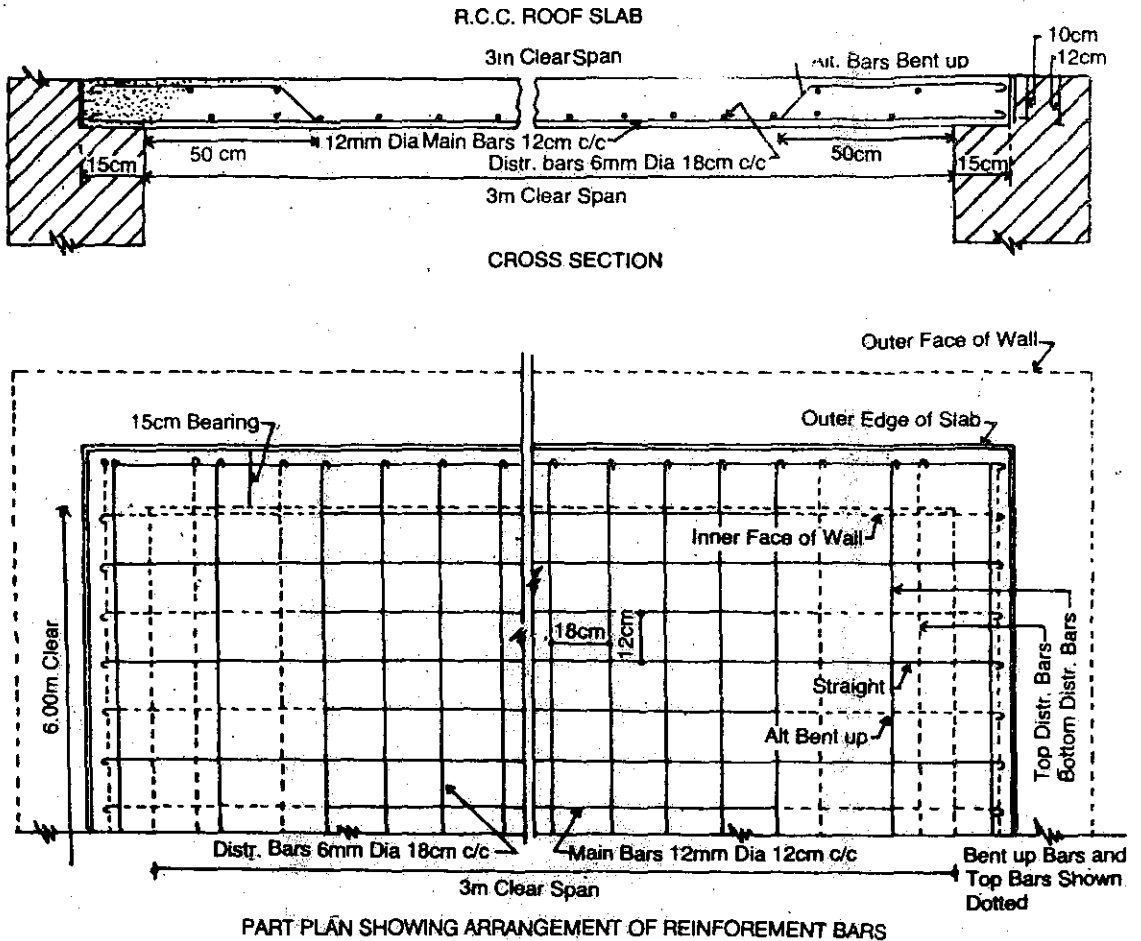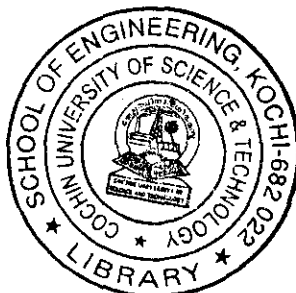

figure 2.

Note—*In plan bent up and top bars have been shown in dotted lines.*

III. (a) Write down specification for the following items of work :
        (i) Painting doors and windows
        (ii) Mosaic flooring. (10)
  (b) Differentiate between brief specification and detailed specification. (4)
  (c) What are the objects of specification? (6)

OR

IV. (a) What are the factors affecting rate of a particular item of work? (5)
  (b) From first principles work out the quantities of materials required for the following items of work :
        (i) PCC 1:4:8 using 40 mm aggt.
        (ii) Brick work in cm 1:6
        (iii) Plastering using cm 1:4, 12 mm thick. (3 x 5 = 15)

V. Explain :
        (i) Value   (ii) Market value
        (iii) Years purchase   (iv) Lease hold. (20)

OR

VI. (a) State methods of valuation.
  (b) What is the purpose of valuation?
  (c) A pump set with motor has been installed at a cost of Rs. 25,000/-. Assuming the life of the pump as 15 years, work out the amount of annual installment of sinking fund required to be deposited to accumulate the whole amount of 4% compound interest. (20)

VII. (a) What do you understand by Gilt edge securities? State their essential characteristics. (8)
  (b) What is depreciation? What are the ways of calculating it? (7)
  (c) Explain easement. (5)

OR

VIII. (a) What do you understand by rent of a property? Discuss different classifications of rents as are connected with the lease of a property. (10)
  (b) A building costing Rs. 50,000,00.00 has been constructed on a free hold land measuring 100 sq.m in a big city. Prevailing rate of land is Rs. 1500 per sq.m. Determine the net rent of the property, if the expenditure on an outgoing including sinking fund is Rs. 2 lakhs per annum. Work out also the gross rent of the property per month. (10)

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