B. Tech Degree VIII Semester Examination, May 2006

CE 801 A/B QUANTITY SURVEYING & VALUATION
(2002 Admissions)

Time : 3 Hours   Maximum Marks : 100

I.   Estimate the quantities of the following items of work of the building whose plan and
            section are given in the figure

SECTION ON A.B.C.

PILLAR FOUNDATION
SQUARE SECTION SIMILAR
To 30 cm. WALL

├—1.2 m—┤   TREAD, 30 cm.
            RISE - 15 cm.

D - DOORS - 1.2. m x2.2. m.
W - WINDOWS - 90 cm x 150 cm.
ALL CHAUKHATS - 8 cm. x 10 cm.
SHELVES - 90 cm. x 180 cm.

PLAN
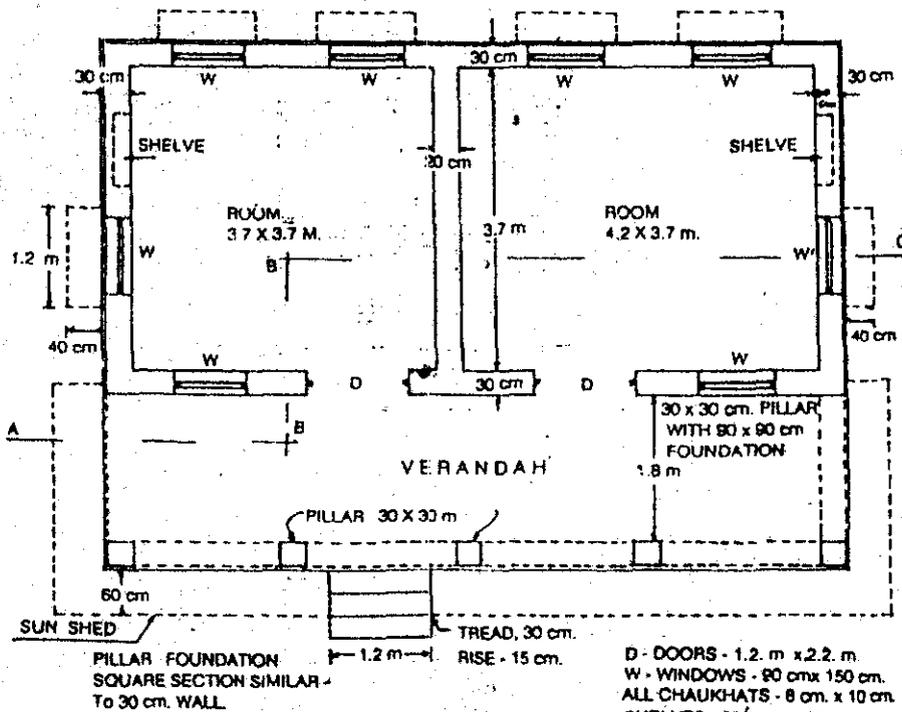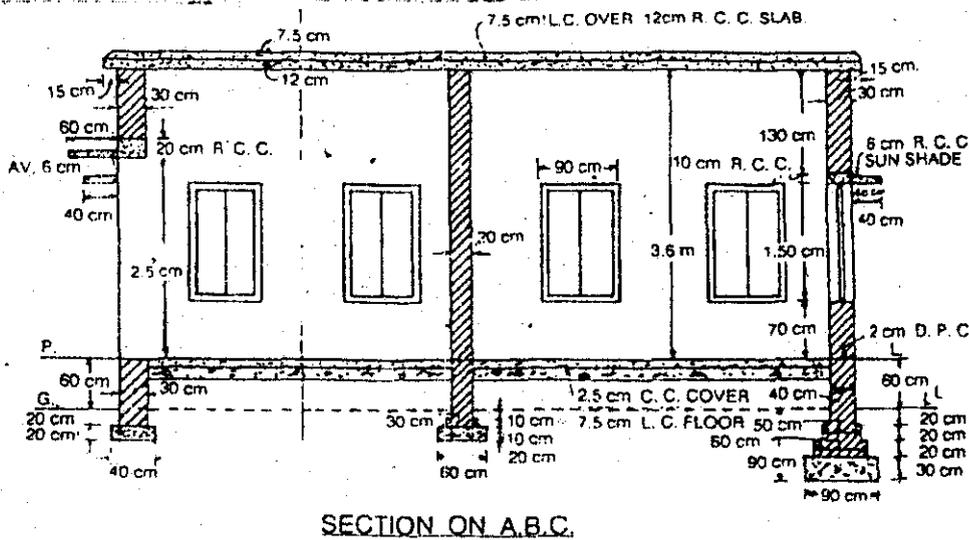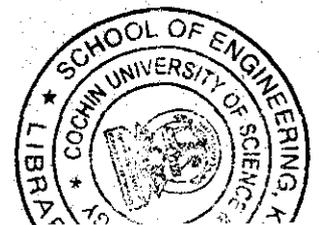
(i)   Plain cement concrete in foundation
(ii)   Brick work in cm 1: 8 for foundation and plinth
(iii)   First class brick work in cement mortar 1 : 6 for wall
(iv)   RCC work for roof slabs lintel and sunshades   (40)
(v)   Sand filling in the basement

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

II.   Prepare a complete bending schedule for the portal frame shown in the figure. Also calculate the quantities of RCC   (40)

PLAN OF 38 cm x 25 cm. COLN.
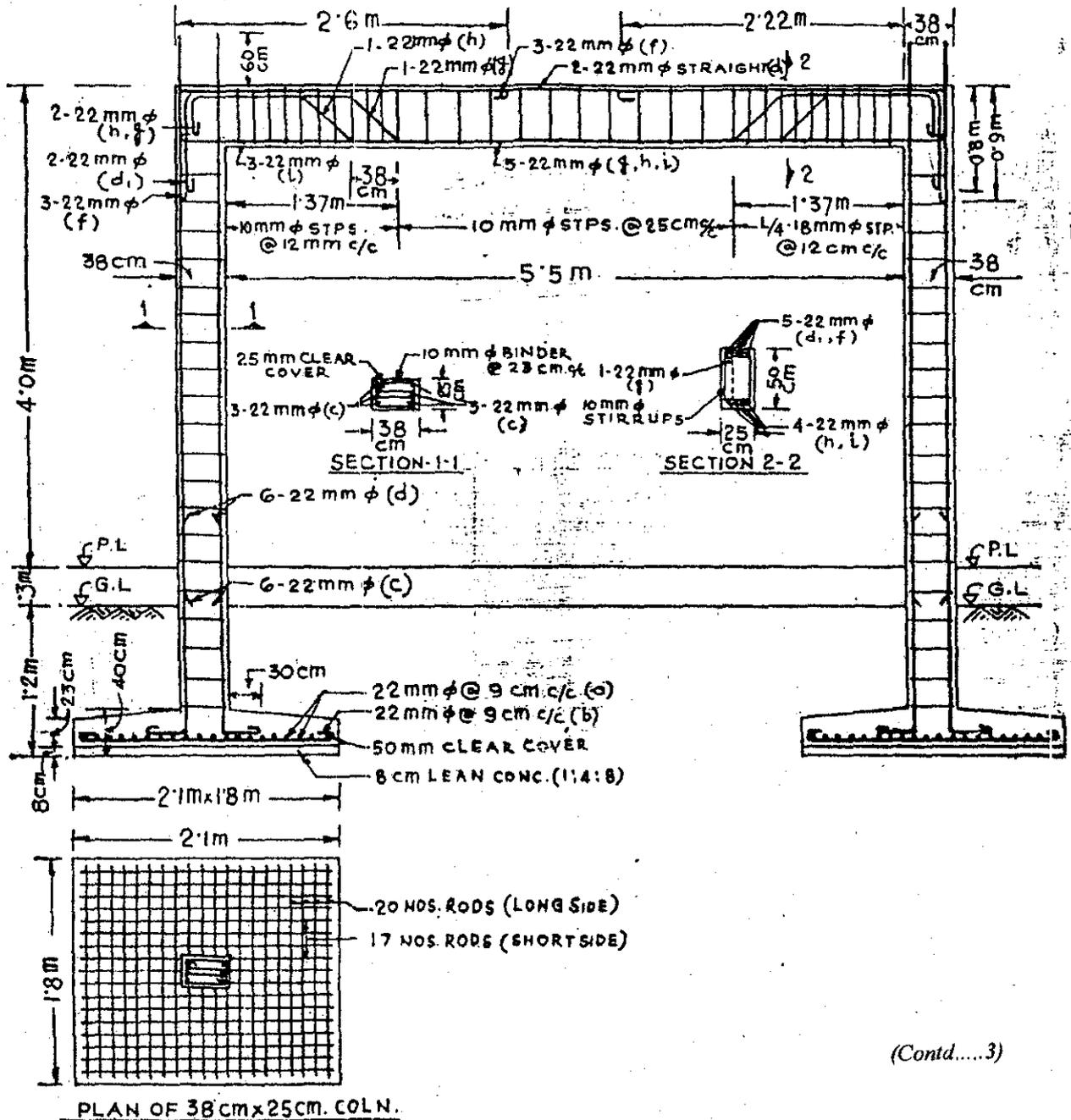
III.   (i)   Write down the specification for DPC

         (ii)   Write down the specification for painting doors and windows

         (iii)   Write down the specification for Terrozo flouring

         (iv)   What are the objectives of specifications   (20)

OR

IV.   Calculate from first principles the materials required for the following item per m^3.

         (i)   Brick masonry in cement mortar 1 : 6

         (ii)   P.C 1 : 4 : 8 using 40mm aggregate   (20)

V.   (a)   Define the following :

                (i)   Book value

                (ii)   Market value

                (iii)   Years purchase

                (iv)   Rate   (10)

       (b)   A pump set with motor has been installed in a building at a cost of Rs.1,500. Assuming life the of the pump as 15 years, workout the amount of annual instalment of sinking fund required to be deposited to accumulate the whole amount at 4% compound interest.   (10)

OR

VI.   (a)   Define Depreciation. Enumerate the various methods of calculating depreciation and explain any one method in detail.   (10)

       (b)   A semi permanent school shed was constructed for Rs.1,50,000/-. If its salvage value after 15 years is 25,000, calculate the amount of depreciation and book value for each year by St. line method.   (10)

VII.   (a)   Enumerate the methods of valuations.   (5)

       (b)   Explain the terms   (i)   out goings

                                  (ii)   Gross rent

                                  (iii)   Net rent   (15)

OR

VIII.   In a plot of land costing Rs.2,00,000/- a building has been newly constructed of Rs,20,00,000/- The building consist of four flats for four tenants. The owner expects 9% return on the cost of construction and 6% return on the cost of land. Calculate the standard rent for each flat based on the following

                (i)   Life period of building – 50 years

                (ii)   Sinking fund @ 4%

                (iii)   AMC 1.5% of cost of construction

                (iv)   Outgoings including taxes 25% of net return of the building.   (20)

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