

B. Tech Degree VIII Semester Examination, April 2007

CE 801 A/B QUANTITY SURVEYING AND VALUATION

(2002 Admissions onwards)

Time : 3 Hours

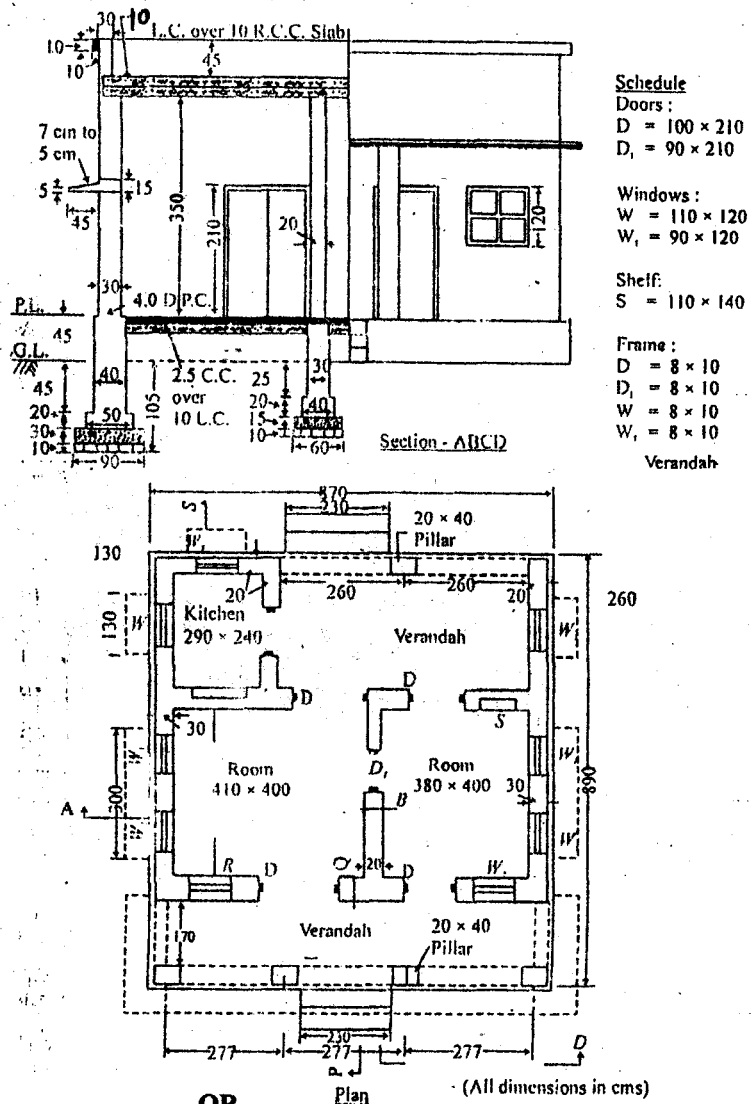
Maximum Marks : 100

(Assume any missing data suitably)

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

- (i) Earth work in excavation
- (ii) Cement concrete 1:4:8 in foundation
- (iii) 1st class brick work in cement mortar (1:6) in super structure
- (iv) RCC work (1:2:4) excluding reinforcement.

(40)



(Turn Over)

- II. Calculate the quantity of cement concrete and prepare a bar bending schedule for an RCC slab roof provided over a room with the following data :
Size of room – 4.80 m x 4.20 m, Bearing of slab on each side 15 cm and thickness of slab 15 cm. Provide 10mm ϕ bars cranked from one side 8 cm C/C both ways end bars will be straight bars. Provide 3 bars on each side as extra for holding the cranked portion. (40)
- III. Write down the specification for the following item of works :
- (i) Ist Class Brickwork
 - (ii) Painting in wood and steel
 - (iii) R.R Masonry
 - (iv) RCC 1:1 ½ : 3 (20)
- OR
- IV. Calculate rate per unit for the following items :
- (i) Whitewashing one coat
 - (ii) 2.5 cm cement concrete 1:1 ½ : 3 (20)
- V. Define the following :
- | | |
|----------------------|---------------------------|
| (i) Obsolescence | (ii) Book value |
| (iii) Price and cost | (iv) Distress value. (20) |
- OR
- VI. Find the capitalized value of a property fetching a net annual rent of Rs. 5000/- when the highest rate of interest prevalent is 8%. (20)
- VII. (a) What is depreciation? Explain different methods to calculate depreciation. (10)
(b) The sinking fund amount of a property is estimated to be Rs. 50000/- whose future life is 20 years. Find the yearly installment of sinking fund which should be set aside @ 5%. (10)
- OR
- VIII. (a) An old building has been purchased by a person at the cost of 50000/- excluding the cost of land. Calculate the amount of the annual sinking fund if the rate of compound interest for sinking fund is 4%. Assume future life 30 years and scrap value is 10% of cost of purchase. (10)
(b) A building costing Rs. 3,50,000/- has recently been constructed in a big city. The plot measuring 450 sq. m was purchased @ Rs. 150/- per sq. m. Work out the rent of the property. Assume 8% as net return on the cost of construction and 4 ½ % on the land value. All expected outgoings are Rs. 10,000/- per year. (10)
