

## B. Tech Degree VIII Semester Examination, May 2006

### CE 802 QUANTITY SURVEYING AND VALUATION

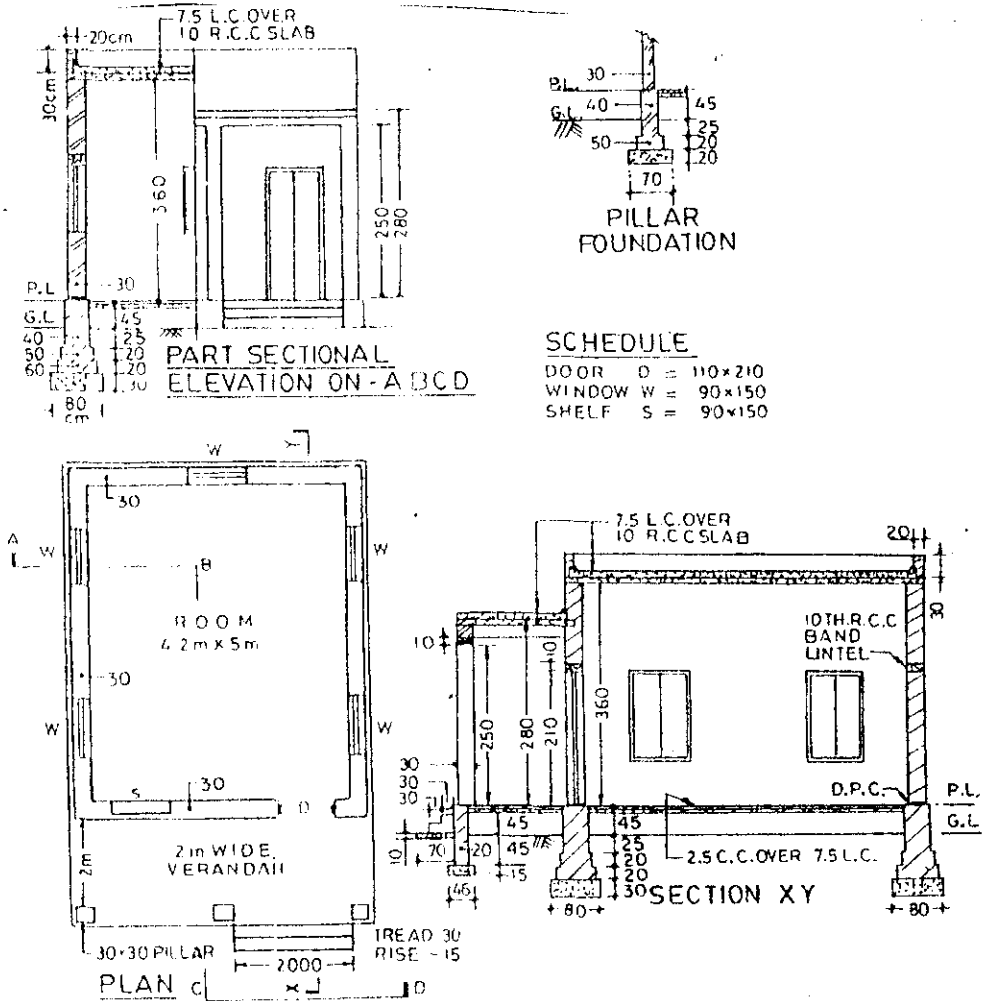
(Prior to 2002 Admissions)

Time : 3 Hours

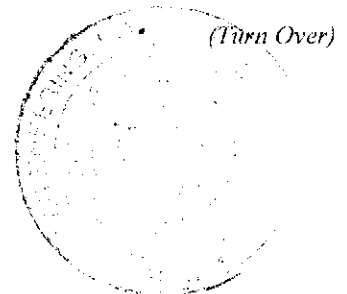
Maximum Marks : 100

(Note: Assume suitable data where ever necessary)

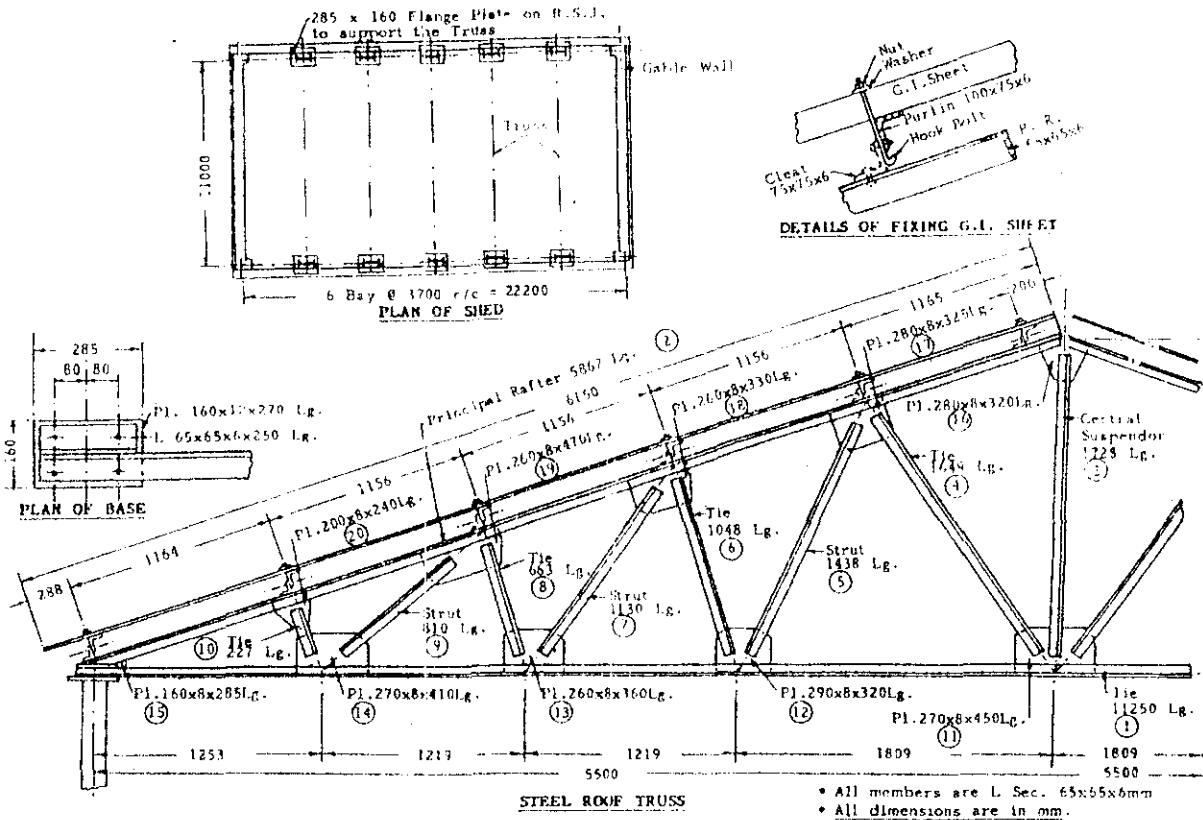
1. Calculate the quantities of the following items of work of the building shown in the figure
- (i) Earth work excavation for foundation
  - (ii) Lime concrete in foundation
  - (iii) First class brick work in cement mortar (1:6) for foundation and plinth
  - (iv) 2.5cm thick damp proof course
  - (v) First class brick work in superstructure.
- (40)



OR



Prepare a detailed estimate of the shed of 24 B.G.I sheet supported over steel Roof truss and purlins from the drawing. The effective span of the truss is 11.0 meters and the shed has 6 bays @ 3.70m c/c with gable walls at the ends to support the purlins. Wind ties 40 x 6 mm flat shall be provided. All joints are welded 6mm fillet. All iron works shall be painted two coats with aluminium paint. (40)



- III. (a) Describe the different types of specifications. (5)  
 (b) What are the advantages and disadvantages of open specifications? (5)  
 (c) Write down the specification for water bound Macadam Roads. (5)  
 (d) Write down the specification for earth work in excavation of foundation trenches. (5)

OR

(Contd...3)

- IV. (a) Calculate the Rate per cum for cement concrete 1:2:4 with graded stone chips from 20mm down to 6mm for R.C works excluding shuttering and reinforcement. (10)
- (b) Calculate the rate per cum for first class brickwork in cement mortar 1:4 in superstructure, ground floor. (10)
- V. Write short notes on the following.
- (i) Purpose of valuation
- (ii) Value and Cost
- (iii) Scrap value and Salvage value
- (iv) Market value and Book value (20)
- OR**
- VI. (a) What is meant by sinking fund? How it is determined? (8)
- (b) An owner has installed an air cooler in a building at a cost of Rs.15,000/-. If the life of the cooler is 20 years. Calculate the amount which he should set aside annually as sinking fund to accumulate the above cost at 5% compound interest. (12)
- VII. (a) What is Depreciation? What are the different types of depreciation? (6)
- (b) Differentiate Depreciation and Obsolescence. (6)
- (c) Explain the land and building method of valuation. (8)
- OR**
- VIII. (a) Explain
- (i) Lease Rent
- (ii) Years of Purchase
- (iii) Free hold property
- (iv) Outgoings (8)
- (b) The owner of a building gets a net annual rent of Rs.3500. The future life of the building is estimated 12 years. But if recommended repairs are carried out immediately at an estimated cost of Rs,30,000/- it is expected to last for at least 30 years. Assume the rate of interest as 8%, determine whether it is economical to carry out the recommend repairs to the building or leave it as it is. (12)

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