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EIGHTH SEMESTER B.TECH (ENGINEERING) DEGREE EXAMINATION, LIAY 2012 CE 04 801 - QUANTITY SURVEYING F- VALUATION

Time: Three Hours Maximum: 100 Marks

Schedule of rate of Kerala PWD and standard data book of Kerala PWD are permitted.

Answer All Questions.

- I. a. Explain the necessity of an estimate and mention the different types of estimate.
 - b. Explain i. Supplementary estimate, ii. Contingencies.
 - c. Calculate the quantity of foundation concrete 1:4:8, for a building if the quantity of earthwork excavation for foundation is 80 m3, with a width of 90cm and depth 15 cm. Also calculate the quantity of RR masonry work for first footing having-a depth of 60 cm and the offset on either side is 15 cm each wrt PCC.
 - d. Write short notes on data book and schedule of rates.
 - e. What is Bar bending schedule. Explain its significance in the preparation of estimates
 - f. Work out the unit rate for earth work excavation for foundation in hard soil.
 - g. Differentiate free hold property and lease hold property.
 - h. Define Year's purchase. Work out the years purchase for 8% interest rate.
- II. a. Prepare a detailed estimate of quantities of the following items of the building shown in fig 1.
 - i. Earthwork excavation in foundation.
 - ii. Brick work for superstructure.
 - iii. Wood work for frames of doors and windows.
 - iv. Ceiling plastering

OR

- b. Prepare a detailed estimate of quantities of the following items of the building shown in fig l.
 - i. PCC in foundation.
 - ii. Plastering of walls inside and outside
 - iii. Wood work for strutters of doors and windows.
 - iv. Reinforcement for RCC slab.
- III. a. Prepare a detailed estimate for supplying and laying 100 mm glazed SW pipes for 300 in length, jointing with CM. 1:2, including trenching up to a depth of lm.

OR

- b. Write down the detailed specification for the following item:
 - i. Colour washing two coats on newly plastered walls,
 - ii. Anjili Wood work for frames of door and windows.

- IV. a. (i) Prepare the rate of 1st class brickwork with cement mortar 1:6 using country burnt brick for ground floor using SOR and Data book. Provide necessary lorry conveyance of 25 km for each item.
 - (ii) Prepare a bar bending schedule for a typical RC simply supported beam of 6 m clear span and 30 cm x 60 cm in section, supported over 20 cm brick wall. Use Tor steel of 20 mm dia as main reinforcement and 10 mm dia as stirrups. Reinforcement in tension side is 6 nos, with two in bent up state

OR

- b. (i) Prepare the rate of cement concrete 1:1.5:3 used in beam for ground floor using SOR and Data book. Provide necessary lorry conveyance of 30 km for each item.
 - (ii) Prepare a bar bending schedule for a typical isolated RCC column footing.
- V. a. (i) Define Outgoings. Explain the various types of outgoings.
 - (ii) An old building has been purchased by a person at a cost of Rs. 25,0000/-, excluding the cost of land. Calculate the amount of annual sinking fund at 6% interest assuming the future life of building as 25 years and the scrap value of buildings as 15% of cost of purchase.

OR

b. A lease hold property is to produce a net income of Rs. 20,000/- per annum for the next 50 years. What is the value of the property. Assume that the land desires a return of 5% on his capital and the sinking fund to replace the capital is to accumulate at 6%. What will be the value of the property if the rate of interest for redemption of capital is 4%.

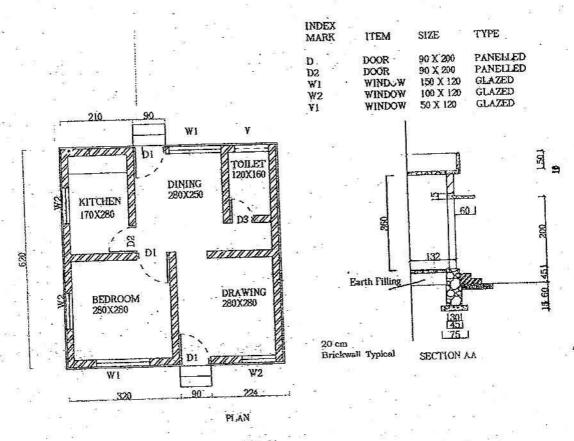


Fig. 1