

4E 4116

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B.Tech. IV Semester (Main/Back) Examination, June/July - 2015  
Civil Engineering  
4CE6A Quantity Surveying & Valuation of Structures

Time : 3 Hours

Maximum Marks : 80  
Min. Passing Marks : 26

**Instructions to Candidates:**

Attempt any five questions, selecting one question from each unit. All questions carry equal marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.

**Unit - I**

1. Enumerate different types of estimate and explain each. (16)

OR

1. Write a short notes on the following (Any Four):
- (a) Measurement book.
  - (b) Abstract sheet.
  - (c) Bill of Quantities.
  - (d) Mustor Roll
  - (e) Contractor's profit and overhead charges (C.P.&O.H.) (4×4 =16)

**Unit - II**

2. (a) Explain the term tender and its important features. (8)  
(b) Differentiate between Free hold property and Lease hold property (8)

OR

2. (a) Write down the specifications for I<sup>st</sup> class brick Work in cement mortar 1:6 in super structure. (10)

- b) What do you understand by current schedule of rates. (6)

**Unit - III**

3. a) Define the term Deposit Work and Technical Sanctions. (8)
- b) Enumerate Various items (at least 20) involved in estimate of water supply and sanitary fittings in a residential building & their units. (8)

**OR**

3. Prepare a preliminary estimate of a four storeyed office building having a Carpet area of 2000 sq.m for obtaining the administrative approval of the govt. Given the following data. It may assumed that 30% of the built up area will be taken up by the corridors, Verandahas, lavatories, staircase etc. and 10% of the built up area will be occupied by Walls.
- (i) Plinth area rate is - Rs. 950.00 per sqm.
  - (ii) Extra due to deep foundation at site - 1% of the building cost.
  - (iii) Extra for special architectural treatment - 0.5% of building cost.
  - (iv) Extra, for Water supply and sanitary installations - 6% of building cost.
  - (v) Extra for electric installations - 12.5% of building cost.
  - (vi) Extra for external services - 5% of building cost
  - (vii) Supervision charges - 8%
  - (viii) Contingencies - 2.5%
- (16)

**Unit - IV**

4. (a) Enumerate in chronological order Various major items of works carried out during construction of a building. (8)
- (b) Discuss various factor affecting the cost of the work. (8)

**OR**

4. Write short notes on the following (Any Four)
- (i) Over head charges
  - (ii) Contingencies
  - (iii) Work charge establishment
  - (iv) Plinth area rate.
  - (v) Tools & plants (T. & P.)
- (4×4=16)

**Unit - V**

5. Describe the purpose of valuation and different methods of Valuation. (16)

**OR**

5. Differentiate between the following :

- (i) Scrap value and salvage value.
- (ii) Depreciation and sinking fund.
- (iii) Rateable value and Book value.
- (iv) Schedule of rates and Analysis of rates

(4×4=16)

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