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**Question Paper Code : 70361**

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2023.

Seventh Semester

Civil Engineering

CE 8701 – ESTIMATION, COSTING AND VALUATION ENGINEERING

(Regulations 2017)

Time : Three hours

Maximum : 100 marks

Note : Assume suitable data if necessary.

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List the factors to be considered while preparing a detailed estimate.
2. Explain Overhead charges.
3. State the importance of rate analysis.
4. Calculate the materials required for brick tile flooring in 1:6 cement mortar.
5. State the principle of report preparation.
6. Explain the term Notice Inviting Tender.
7. Mention the Pre-qualification criteria for selecting a contractor.
8. Mention the purpose of Earnest Money Deposit.
9. List the different methods of depreciation.
10. Demonstrate the meaning of salvage value with example.

PART B — (5 × 13 = 65 marks)

11. (a) Explain the different methods of preparation of approximate estimate.

Or

- (b) Explain different methods for taking out quantities with example.

12. (a) Explain in detail about the standard data for man hours and materials in civil works.

Or

- (b) Explain how to calculate the quantity requirements to prepare rate analysis for brickwork.

13. (a) Discuss the salient features of Tamil Nadu Transparency in Tender Act 2000.

Or

- (b) Write down the detailed specification for Cement concrete in foundation.

14. (a) Explain different types of construction contract in detail.

Or

- (b) Discuss the various methods of dispute resolution.

15. (a) Explain in detail about various methods of Valuation.

Or

- (b) Accommodation room is built at the cost of Rs. 6,00,000/- The water supply and sanitary and electrical installation expenditure is Rs. 1,50,000/- Calculate the standard rent of the building if the following rate of return are fixed :

- (i) 6% on construction cost
- (ii) 1  $\frac{1}{2}$ % towards maintenance of building work,
- (iii) 4  $\frac{1}{2}$  % on installation expenditure.
- (iv) Rs. 120/- as property tax per year.
- (v) 4% on maintenance of Installation.

Cost of land is to be neglected.

PART C — (1  $\times$  15 = 15 marks)

16. (a) Explain different types of Estimates in detail.

Or

- (b) Formulate the “Structure of Construction Contract Bidding document” with necessary essential elements.