

Roll No

CE-704

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B.E. VII Semester

Examination, December 2016

Quantity Surveying And Costing

Time : Three Hours

Maximum Marks : 70

Note: Attempt any five questions. All questions carry equal marks.

1. a) Explain revised estimate.
b) Explain Principle of Estimating.
2. a) Explain Plinth area rate and Cubical content rate Estimate.
b) Describe various types of Estimates and explain their purpose.
3. Prepare a preliminary estimate of a three storied office building having a carpet area of 12000 sqm with following data. It may be assumed that 30% of the built up area will be taken up by the corridors, verandahs, lavatories, staircase etc. and 10% of the built up area will be occupied by walls.
 - i) Plinth area rate - Rs. 10000.00 per m
 - ii) Extra due to deep foundation at site = 1.1% of Building cost
 - iii) Extra for special Architectural treatment – 0.5% of Building cost.
 - iv) Extra for sanitary and water supply installation – 6% of Building cost.
 - v) Extra for Electrical installation = 12.5% of building cost
 - vi) Contingencies = 2 1/2%
 - vii) Supervision charges 8%

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4. a) Differentiate between Carpet area and Built-up Area. Explain in detail about CSR.
b) Prepare the rate analysis for 12mm cement plastering 1:6 unit 1 sqm.
5. a) What is the purpose of preparing detailed estimate?
b) What is preliminary estimate of a building?
c) Differentiate between Measurement sheet and Abstract sheet.
6. a) Explain the calculation of length of Bent up and hooked bars? Explain DPR?
b) Explain the importance of Contingencies in an Estimate?
7. a) Discuss in detail how the cost of work can be minimized to a certain limit.
b) Prepare analysis of rate for first class Brick work in 1:4 cement Mortar in Foundation and Plinth.
8. a) What is the purpose of Valuation?
b) Explain Depreciation.
c) Explain Scrap Value and Sinking Fund.
d) Describe various methods of Valuations.
