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## Seventh Semester B.Arch. Degree Examination, June/July 2023 Specification, Quantity and Costing of Buildings

Time: 3 hrs.

Max. Marks: 100

*Note: Answer any FIVE full questions, choosing one full question from each module.*

### Module-1

- 1 a. Define Estimate. "Estimate is never the actual cost but it is approximate cost" Explain briefly. (10 Marks)  
b. List and explain the factors affecting estimation of building. (10 Marks)

OR

- 2 Explain the following types of estimate:  
i) Preliminary estimate  
ii) Detailed estimate  
iii) Revised estimate  
iv) Supplementary estimate  
v) Item rate estimate. (20 Marks)

### Module-2

- 3 a. What is a contract? List and explain the different types of contract. (10 Marks)  
b. What is a tender document? List the essentials of a tender. (10 Marks)

OR

- 4 Write short notes on:  
i) EMD and Security retention.  
ii) Measurement book and its importance.  
iii) Safety norms to be followed at site.  
iv) Administrative and technical sanction. (20 Marks)

### Module-3

- 5 a. Define rate analysis. List and explain the sub-head costs taken into account. (10 Marks)  
b. List and explain the different factors affecting the rate analysis. (10 Marks)

OR

- 6 Carry out the rate analysis for the following:  
i) Earthwork excavation for foundation in ordinary soil.  
ii) PCC bedding 1:4:8 for foundation.  
iii) Coursed rubble masonry in CM 1:6.  
iv) Painting plastered surface including preparation of surface. (20 Marks)



**Module-5**

- 9 Estimate the quantity of earthwork for a portion of road for 300m length from the following data. Formation width is 10m, side slopes in banking is 2:1 and side slopes in cutting is 1.5:1.

Distance	0	30	60	90	120	150	180	210	240	270	300
RL of ground	101	100.9	100.5	100.7	100.8	100.6	100	99.8	99.2	99.1	98.5

The formation level at the first chainage is 102. The road is in downward gradient of 1 in 50 upto distance of 120m. Afterward gradient changes to 1 in 100. (20 Marks)

**OR**

- 10 Explain the following:
- Certificate of virtual completion
  - Liquidated damages
  - Ra bill and final bill
  - Payment certificate
  - Security deposit.

(20 Marks)

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