

Code: CE7T3

**IV B.Tech - I Semester – Regular/Supplementary Examinations  
October - 2019**

**ESTIMATION AND COSTING  
(CIVIL ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

**PART – A**

Answer *all* the questions. All questions carry equal marks

11 x 2 = 22 M

1. a) Emphasis on the need of Estimation and Costing in Civil Engineering
- b) What are the units of measurement for various items of Civil Engineering Works?
- c) Write the difference between detailed and abstract estimates.
- d) What is the difference between plinth level and ground level?
- e) Explain Centre line method in detail
- f) What are the advantages of Bar Bending Schedule
- g) What is sinking fund?
- h) Brief on the time and material contracts.
- i) How do you value a commercial property?
- j) State different types of precautions needed for completion of earth work.
- k) Brief the role of reports in estimating the roads.

## PART – B

Answer any ***THREE*** questions. All questions carry equal marks.

$$3 \times 16 = 48 \text{ M}$$

2. “Estimating the ultimate cost of a project requires the integration of many variables” discuss the statement with real example and brief on standard specifications for different items of building construction. 16 M
3. Explain different methods of taking out quantities in detail and examine the adoption of partly centre line and partly long wall and short wall method in civil engineering works. 16 M
4. What do you understand by rate analysis, what are the factors affecting analysis of rates of civil works? And explain the elements which constitute the rate analysis. 16 M
5. Discuss the importance of contract documents in civil engineering works, general conditions of contract and brief on the procedure of valuation of buildings. 16 M
6. Examine different methods popularly used for doing earthwork calculation for Cutting/Filling projects with appropriate illustrations. 16 M