

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

June, 2019

00695

**BICE-021 : ESTIMATION AND CONSTRUCTION
MANAGEMENT**

Time : 3 hours

Maximum Marks : 70

Note : Attempt any **seven** questions. All questions carry equal marks.

1. (a) Discuss the various factors which have complicated the process of estimating. 5
- (b) Explain the main functions of Abstract of an Estimate. 5
2. (a) Discuss the specifications for the following : 6
 - (i) Earthwork in excavation
 - (ii) PCC in foundation
 - (iii) Damp Proof Course
- (b) Write the importance and uses of specifications. 4
3. Explain in detail the stages of material management. 10

4. (a) Explain the various causes of economic obsolescence. 5
- (b) Write the differences between reproduction cost and replacement cost. 5
5. List out the important technical terms used in PERT analysis. Explain any four of them, in brief. 10
6. Give the rate analysis of major typical terms used in the construction activity. 10
7. (a) Discuss the lumpsum contracts with advantages and disadvantages. 5
- (b) Define the terms : cost, price and value in reference to construction management. 5
8. Describe the mode of submission of tender and the process of opening of tenders for a big project. 10
9. Write short notes on the following : $4 \times 2 \frac{1}{2} = 10$
- (a) Resource Smoothing
- (b) Safety Stock
- (c) Depreciation
- (d) Critical Path Method (CPM)
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