

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

00436

June, 2015

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

Time : 3 hours

Maximum Marks : 70

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

1. What are the detailed estimates included in the preparation of project ? What are the different types of costs included in detailed estimates ? 10
2. Explain in detail the principles of specification. 10
3. (a) Write essential requirements of elements of a valid contract. 4
(b) Explain lump-sum contract. What are the advantages and disadvantages of lump-sum contract ? 6
4. (a) How can a contract be terminated ? Explain in brief. 4

- (b) What are the objectives of making provisions for earnest money and security deposit ? 6
5. (a) What are the advantages and disadvantages of Critical Path Method (CPM) ? 4
- (b) Explain how critical path is determined. 6
6. Explain in detail the stages of Material Management. 10
7. (a) Explain the various causes for economic obsolescence. 6
- (b) Write the differences between reproduction cost and replacement cost. 4
8. (a) Define direct and indirect cost. 4
- (b) Define the following : 6
- (i) Market
- (ii) Accommodation value
- (iii) Scrap value
9. Describe the mode of submission of tender and the process of opening of tenders for a big project. 10

10. Write short notes on the following :

$$4 \times 2 \frac{1}{2} = 10$$

- (a) Safety Stock
 - (b) Role of Valuer
 - (c) Gantt Bar Chart
 - (d) Work-Abstract
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