

00201

B.Tech IN CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

December, 2013

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

Time : 3 Hours

Maximum Marks : 70

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

1. (a) Explain the important factors for detailed estimate. 5
(b) Discuss the reasons for approximate estimate of a structure. 5
2. (a) Discuss the open specifications with their advantages and disadvantages. 5
(b) Explain the essential principles of good specification in brief. 5
3. What are the essential elements of a valid contract ? Explain each of them in detail. 10
4. Describe the responsibilities of the engineer; contractor and owner of a large construction project. 10

5. (a) Define direct and indirect cost. 5
(b) Define the following : 5
(i) Market value
(ii) Accommodation value
(iii) Scrap value
6. (a) What are the causes of functional obsolescence ? 5
(b) Write the differences between reproduction cost and replacement cost. 5
7. (a) Write the differences between reduced rate and part rate. 5
(b) Explain the term 'rate analysis' and mention its purposes. 5
8. Describe the P.W.D. method of taking out quantities. 10
9. (a) Discuss in brief the factors affecting construction management and planning. 5
(b) Discuss briefly the steps in critical path method. 5
10. Write short note on *any four* of the following :
(a) Net Present Value (N.P.V.) 2.5x4=10
(b) Open and Selected Tender
(c) Resource Levelling
(d) Safety Stock
(e) Cost Planning
(f) Role of the Valuer