

Code: CE7T3

**IV B.Tech - I Semester – Regular / Supplementary Examinations
March 2021**

**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) Brief the principles of working out qualities' estimates.
- b) What are the general items need to assess in the work of building?
- c) How important is specifications in a construction project?
- d) Differentiate performance specifications and prescriptive specifications.
- e) Brief on the adoption of partly Centre Line and partly Cross Wall Method.
- f) Define standard schedule of rates.
- g) What is bar bending schedule in civil engineering?
- h) What are the different types of contracts in construction?
- i) How do you determine the value of a building?
- j) What do you understand by lead and lift in earthwork?
- k) Brief on the report elements to estimate construction costs of a building.

PART – B

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

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

2. “Building construction estimating is the determination of probable construction costs of any given project” justify the statement and brief on the methods of estimating with an illustration. 16 M
3. Discuss the methods that can be used for estimating the quantities like earth work, foundation concrete, brickwork in plinth and super structure etc.? and brief on importance of centreline method. 16 M
4. What is meant by Bar Bending Schedule, general guidelines to be followed in preparing BBS and how to prepare a BBS—explain with an illustration. 16 M
5. “Construction contract types are usually defined by the way, the disbursement is going to be made” examine statement and brief on the contract documents. 16 M
6. Provide a detailed note on types of reports on estimates for the construction of buildings and roads with suitable illustration. 16 M