

**BHARATI VIDYAPEETH INSTITUTE OF TECHNOLOGY**  
**Question Bank (K-Scheme)**

**Name of subject: Estimating, Costing and Valuation**

**Unit Test: I**

**Subject code: 314313**

**Course: CE**

**Semester: IV**

**Unit 3 (Detailed estimate)**

**2 Marks**

1. Calculate steel reinforcement in kg for 50 m<sup>3</sup> R.C.C. work of slab where 0.9% steel reinforcement is provided.
2. Write modes of measurement for the following: a) Brick work, b) Skirting, c) earthwork, d) R.C.C, e) Formwork, f) dado, g) woodwork for door and window frame.
3. Define administrative approval, technical sanction, budget provision.

**4 Marks**

1. Describe rules for deduction of plastering work as per IS 1200.
2. Explain the standard format of different sheets.
3. Enlist the checklist of items of work for load bearing structure and framed structure.
4. Explain role and responsibility of estimator.

**Unit 2 (Approximate estimate)**

**2 Marks**

1. Enlist types of approximate estimate.
2. Define approximate estimate.
3. Write purposes of approximate estimate.

**4 marks**

1. Prepare approximate estimate of a town hall building having plinth area equal to 1500 sq. m.
  - a) Plinth area rate: 4000 per sq. m
  - b) Water supply and sanitary installation: 5% of cost of building
  - c) Electric installation: 10% of cost of building
  - d) Other services: 5% of cost of building

e) Contingencies: 3% of overall cost of building  
 f) Supervision charges: 8% of overall cost of building

2. A residential building of G+4 has been constructed in Pune and having a plinth area of 1200 sq. m. Height of building is 16.5 m above ground. The cost of construction of the building is 6,00,00,000/- using method of cube rate estimate, prepare an estimate of building of 12 m height and area at plinth 2900 sq. m. It has four floors.
3. Describe in brief procedure for preparing approximate estimate for water supply project.
4. Prepare an estimate for two span bridge of 40 m each, the cost of existing bridge is Rs. 50,000/- per meter.

### Unit 3 (Detailed estimate)

#### 2 Marks

1. State data required for detailed estimate.
2. Define detailed estimate and write the purposes.
3. Enlist types of detailed estimate.
4. What are contingencies and work charged establishment?

#### 4 marks

1. Differentiate between revised estimate and supplementary estimate.
2. Explain the long wall & short wall method for taking out quantities.
3. Explain factors to be considered during preparation of detailed estimate.
4. Explain provisional sum, prime cost, day work.
5. Work out quantities of following any three items from Fig.
  - a) Earthwork in excavation
  - b) U.C.R. masonry in C.M. 1 : 6 in foundation and plinth.
  - c) Brickwork in C.M. 1 : 5 in superstructure, Thk. – 30 cm
  - d) R.C.C. work in roof slab (M20 concrete)



