

**BACHELOR OF ARCHITECTURE**

**Term-End Examination**

**December, 2011**

**BAR-053 : ESTIMATING AND COSTING**

*Time : 3 hours*

*Maximum Marks : 70*

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

1. (a) Discuss, in detail, the various methods of Approximate estimation as required for a particular type of building.  
(b) Discuss the merits and demerits of each method of estimation.
2. (a) "To finalise the rate of an item, the analysis of rates is must." Justify the statement.  
(b) Work out the rate analysis for :  
First class brick work in 100 mm thick honey combed wall in 1:4 cement mortar.
3. Explain the following :  
(a) Centre line and short wall-long wall method for detailed estimate  
(b) Lump- Sum tender
4. Write down the units of measurements for the following items of work :  
(a) 200 mm thick brick wall  
(b) Half brick honey combed wall

- (c) Structural steel in shed
  - (d) Electric points
  - (e) 13 mm thick cement plaster
  - (f) Marble stone skirting
  - (g) Hardwares for doors
  - (h)  $75 \times 125$  mm T.W. frame
  - (i) 40 mm thick I.P.S. flooring
  - (j) 150 mm dia sewer line
5. Write down the difference between :
- (a) Interim and final certificates of payments
  - (b) Administrative and Technical sanction.
6. Calculate the quantities of the following items of work for the  $5.00 \times 3.00$  m wall having an opening of  $1.00 \times 2.10$  m with a lintel of  $1.30 \times 0.15 \times 0.10$  m. The wall is a 100 mm thick partition wall.
- (a) Brick work in 1:4 cement mortar.
  - (b) 15 mm thick 1:6 cement plaster on both sides of the wall
7. Explain the following :
- (a) Muster Roll
  - (b) Non- scheduled items
  - (c) Suspense account
  - (d) Clerk of works
8. Write short notes on : (Any two)
- (a) Piece work
  - (b) Contingencies
  - (c) Percentage Tender
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