

**BACHELOR OF ARCHITECTURE**

**Term-End Examination**

**June, 2012**

**BAR-053 : ESTIMATING AND COSTING**

*Time : 3 hours*

*Maximum Marks : 70*

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

1. (a) Define Estimate. Discuss the need and importance of approximate and detailed estimate at various stages of project.  
(b) Discuss the most accurate method of estimation, in detail.
2. (a) Discuss, with example, the basis of rates for item of works based on PWD schedule of Rates.  
(b) Discuss the method of preparation of estimate for electric fittings.
3. Write down the units of measurements for the following items :
  - (a) Glazed tiles in dado
  - (b) Al - glazed partition
  - (c) 40 mm thick panelled doors
  - (d) Pressed steel hollow section frame
  - (e) Half brick thick brick wall
  - (f) M.S. grill for windows
  - (g) 6 mm thick 1 : 4 cement plaster over ceiling
  - (h) Sanitary furnitures
  - (i) 100 mm dia Rain water pipe
  - (j) Providing and fixing of 5 mm glass in windows.

4. Calculate the quantities of the following items for platform having outer to outer dimensions of 4500 mm × 6000 mm. The toe walls are 200 mm thick. The depth of foundation is 700 mm. Assume the typical detail for the foundation. The height of the platform is 450 mm from ground.
    - (a) First class brick work in foundation upto ground and upto floor level.
    - (b) 40 mm thick I.P.S. flooring.
  
  5. Elaborate the following :
    - (a) Deposit work
    - (b) Work charged establishment.
  
  6. Explain the following :
    - (a) Characteristics of N.I.T.
    - (b) Clerk of works.
  
  7. Work out the analysis of rates for the following :
    - (a) M-20 concrete in R.C.C. Slab
    - (b) Providing the reinforcement steel in R.C.C. Slab
  
  8. Write short notes on (*Any two*) :
    - (a) Defect liability period.
    - (b) Issue rates
    - (c) Item rate tender.
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