

BACHELOR OF ARCHITECTURE (B.Arch.)**Term-End Examination**

00130

June, 2017

BAR-053 : ESTIMATING AND COSTING*Time : 3 hours**Maximum Marks : 70*

Note : Attempt any **five** questions. Each question carries equal marks.

1. (a) Define an Estimate. Discuss the need and importance of approximate and detailed estimate at various stages of a project. Write down the criteria for working out the rough estimate of a cinema hall, a cold storage, a hospital and a residential building. 7
- (b) Discuss the various methods of estimation for various types of buildings. Discuss the most accurate method of estimation. 7
2. Calculate the quantities of the following items for a platform having outer to outer dimensions of 3000 × 5000 mm. The toe walls are 200 mm thick. The depth and width of foundation is 700 mm. Plinth may be assumed as 450 mm. Assume the typical detail of the foundation etc., and mention it clearly.
 - (a) First class brick work in foundation up to plinth 10
 - (b) 40 mm thick C.C. flooring 4

3. Define Analysis of Rates. Work out the rate analysis for the following items : (any *two*)
- (a) Providing first class brick work in 1 : 6 cement mortar in superstructure 7
 - (b) Providing 6 mm thick ceiling plaster 7
 - (c) Reinforcement steel 7
4. (a) Write down the importance of units of an item in estimation. 4
- (b) Write down the units of measurements for the following items : 10
- (i) 40 mm thick D.P.C.
 - (ii) 100 mm thick brick wall
 - (iii) Glazed tile in flooring
 - (iv) Floor spring in aluminium glazed doors
 - (v) Steel in trusses
 - (vi) Pressed steel hollow section frame
 - (vii) 40 mm thick door shutters
 - (viii) Electric points
 - (ix) W.C. pots in toilet
 - (x) 200 mm diameter sewer line

5. Explain the following methods of execution of work :
- (a) Daily basis 5
 - (b) Piece work 5
 - (c) Labour rate 4
6. (a) Write down the salient features of technical report writing. 7
- (b) Write down the technical report for obtaining sanction of any given work. 7
7. Write short notes on any *two* of the following :
- (a) Work Charged Establishment 7
 - (b) Measurement Book 7
 - (c) Contingency Expenditures 7
 - (d) Muster Roll 7
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