

BACHELOR OF ARCHITECTURE

Term-End Examination

June, 2011

BAR-053 : ESTIMATING AND COSTING

Time : 3 hours

Maximum Marks : 70

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

1. Discuss the various methods of estimating. Explain various types of estimate each with its use and data required to work out the estimate. 5+9=14

2. Calculate the quantities of the following items for the given room : 7,7
 - (a) Brick work in 1:6 cement mortar
 - (b) R.C.C in lintels and chajja.
 - The size of the room :
4.00 × 6.00 × 3.00 (Height).
 - Wall thickness : 200 mm
 - Door opening - One : 1.20 × 2.10.
 - Windows - Two no. : 1.20 × 1.20 m
 - Lintel : 1.50 × 0.20 × 0.20
 - Chajja projection: 1.50 × 0.60 × 0.075 m.

3. (a) What do you understand by schedule of rates ? 3½
- (b) Write down the mode of measurement for the following items. 10½
- (i) P.C.C. in foundation
 - (ii) 300 mm thick brick work
 - (iii) 40 mm thick I.P.S flooring
 - (iv) 75 × 100 mm Teak wood frame
 - (v) Aluminium section for doors and windows.
 - (vi) Groove in plaster
 - (vii) Steel work in grill and railing
4. (a) Differentiate between estimate and bill of quantities. 7,7
- (b) Explain what is a detailed estimate, and an abstract of cost ?
5. (a) Explain what you understand by the analysis of rates ? 4,10
- (b) Analyse the rate for 1 : 6 cement plaster on wall.
6. Write down a technical report for an office building, for obtaining technical and financial sanction for its construction. 14

7. Write short notes on *any four* of the following :

- (a) Deposit work **3½x4=14**
 - (b) Imprest
 - (c) Muster roll
 - (d) Work charged establishment
 - (e) Specifications for excavation of earths.
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