**BAR-053** 

P.T.O.

# BACHELOR OF ARCHITECTURE (B.Arch.)

## **Term-End Examination**

00380

### **June, 2016**

### **BAR-053 : ESTIMATING AND COSTING**

Time : 3 hours

Maximum Marks: 70

- Note: Question no. 1 is compulsory. Attempt any four questions from the remaining. All questions carry equal marks.
- (a) While carrying out rate analysis of construction works 10% amount is taken as 7×2=14
  - (i) Earnest money
  - (ii) Engineer's fee
  - (iii) Contractor's profit
  - (iv) All of the above
  - (b) The small work up to ₹ 10,000 may be carried out by
    - (i) Tender notice
    - (ii) Contract
    - (iii) Work order
    - (iv) None of the above

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- (c) The number of bricks per m<sup>3</sup> is taken as
  - (i) **100**
  - (ii) **300**
  - (iii) **500**
  - (iv) 700
- (d) A 3 tonnes truck can carry bricks of
  - (i) 500 nos.
  - (ii) 1000 nos.
  - (iii) 1500 nos.
  - (iv) 3000 nos.
- (e) The carpet area of an office building may be \_\_\_\_\_\_ of the plinth area of the building.
  - (i) **50%**
  - (ii) **60%**
  - (iii) **80%**
  - (iv) 100%

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- (f) Which of the following is **not** a method of valuation?
  - (i) Rental method
  - (ii) Development method
  - (iii) Depreciation method
  - (iv) Lump sum method
- (g) A muster roll refers to
  - (i) materials consumed
  - (ii) labour employed
  - (iii) time taken to complete the work
  - (iv) All of the above
- 2. (a) Write down the general specification for wooden flooring.
  - (b) Describe the general specification regarding glazed doors and windows.
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- **3.** (a) Write a note on the estimation of brick masonry in arches.
  - (b) A road in cutting has formation width of 4 m, side slope 1 : 2, distance between two chainage points is 300 m,  $h_1 = 1.5$  m and  $h_2 = 1.1$  m. Using trapezoidal formula, find the volume of earthwork in cutting.

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- 4. Write down short notes on any *four* of the following:  $4 \times 3\frac{1}{2} = 14$ 
  - (a) Lump sum contract
  - (b) Item rate contract.
  - (c) MAS account
  - (d) Permanent imprest
  - (e) Contract document
  - (f) Conditions of contract
- 5. (a) Explain how bar bending schedule is prepared.
  - (b) Discuss the quantification of lime concrete in a building.
- 6. Estimate the quantities of the following items of a two-roomed building from the given plan and section :

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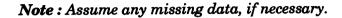
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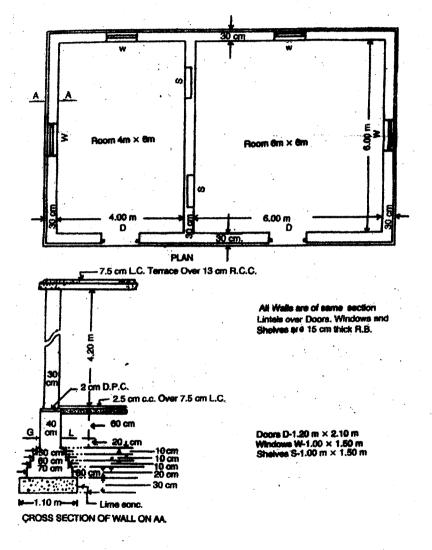
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- (a) Earthwork in excavation in foundation
- (b) Lime concrete in foundation

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(c) First class brick-work in cement mortar 1:6 in foundation and plinth.





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