

BACHELOR OF ARCHITECTURE (B.Arch.)

Term-End Examination

00176

June, 2015

BAR-053 : ESTIMATING AND COSTING

Time : 3 hours

Maximum Marks : 70

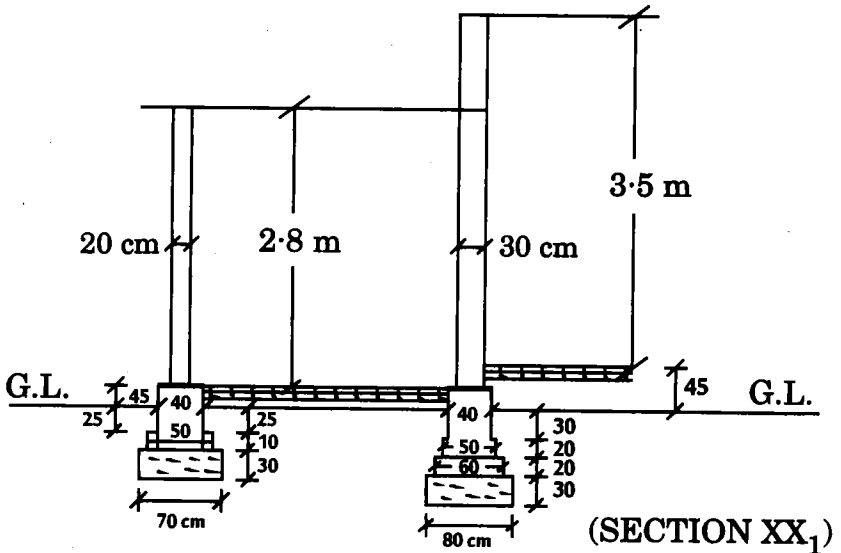
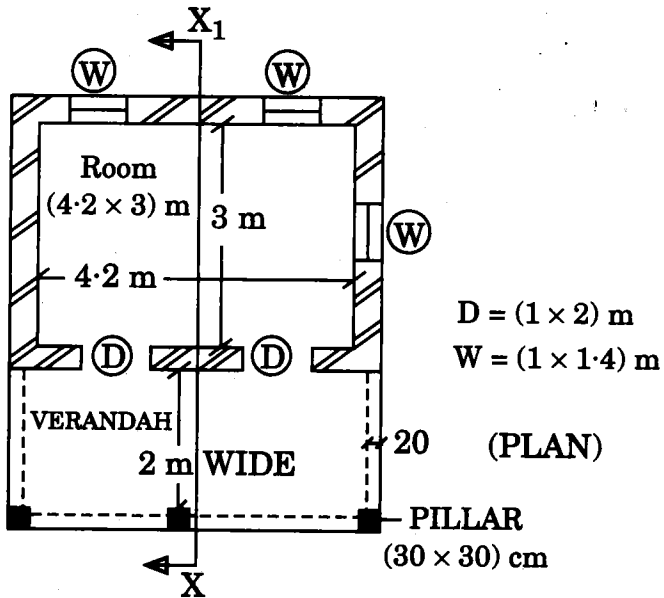
Note : Question no. 1 is compulsory. Attempt any other four questions. All questions carry equal marks. Use of calculator is permitted.

1. Prepare a detailed estimate of a single room building having a front verandah from the given plan and sectional drawing for the following items of work :

14

- Earthwork in excavation
- Lime concrete in foundation
- First class brickwork in foundation
- 2.5 cm D.P.C. (1 : 2 : 4)
- First class brickwork in superstructure

Note : Assume suitably, any missing data.



2. Write short notes on any *five* of the following : 14
- (a) Technical Sanction
 - (b) Issue Rates
 - (c) Suspense Accounts
 - (d) Muster Roll
 - (e) Measurement Book
 - (f) Contingencies
3. How is a technical report framed ? Outline its contents for obtaining technical/financial sanction. Give two suitable examples. 14
4. (a) Write down the units of measurement for the following items of work : 6
- (i) Painting half glazed and half panelled shutters
 - (ii) Pointing
 - (iii) Arch work in lintels
 - (iv) Laying of G.I. Pipes
 - (v) Supply of reinforcement
 - (vi) Half brick honeycomb wall
- (b) Give the average percentage break-up of cost of different major items of a residential building. 8

5. Write down the difference between the following : 14
- (a) Interim and Final Certificates of Payments
 - (b) Financial Handbook and Book of Forms
6. Work out the analysis of rates for the following items of the work : 14
- (a) Cement concrete (1 : 3 : 6) in foundation
 - (b) R.C.C. work in beam (1 : 2 : 4) with 2% reinforcement
7. Write the detailed specification for the following items : 14
- (a) Pointing (cement mortar)
 - (b) 2.5 cms cement concrete floor (1 : 2 : 4 Ratio)
-