

B.Tech. 7th Semester (Civil Engg.) XI Examination,
December-2013

ESTIMATING AND COSTING

Paper-CE-405-F

Time allowed : 3 hours]

[Maximum marks : 100

Note : 1. Question No. is compulsory.

2. All questions carry equal marks.

3. Attempt one question from each unit.

4. Assume missing data, if any, suitably.

1. (a) Define earnest money and retention money.
- (b) Enumerate the different methods to calculate earthwork.
- (c) What are the different types of specifications ?
- (d) Briefly describe the purpose and importance of analysis of rates ?
- (e) Mention general specifications for flooring of a first class building.
- (f) Cash book and measurement book.
- (g) Security deposit.
- (h) Administrative approval.
- (i) Valuator and its purpose.
- (j) Estimate. 2×10

Section-A

2. (a) What are the different types of Estimation ? Explain Plinth Area Estimation and detailed Estimation. 10
- (b) Describe general items of work for building construction. 10
3. Calculate the Details of Measurement and Quantity of One room of given figure. 1 by using Long Wall and Short Wall Method ? 20

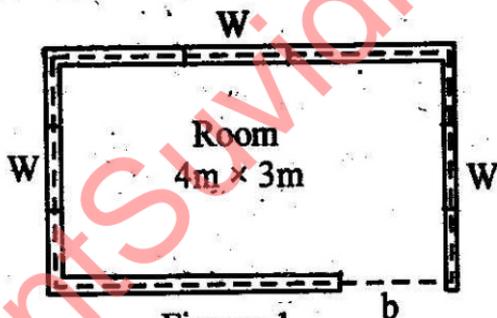
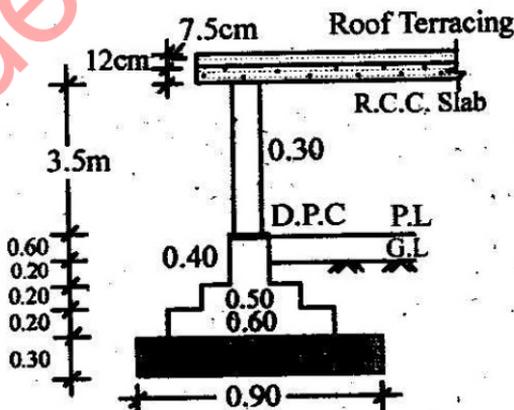


Figure: 1



Cross-Section of Wall

Section-B

4. (a) Explain the general specifications of First class Building. 10
- (b) Describe the detailed specifications of R.C.C Slab (1:2:4), D.P.C (1:1:5:3) and painting. 10
5. (a) Differentiate between 1st class, IInd class and IIIrd class buildings. 10
- (b) Describe the advantages and disadvantages of open and closed specification. 10

Section-C

6. Describe in detail the procedure of rate analysis for reinforced brick work, concrete work, earth work, plastering and painting. 20
7. (a) Determine the rate for a wall of 30m length, 5m height and 30cm nominal thickness. 10
- (b) Describe the unit of measurement and mode of measurement for the following items of work :
- (i) Earth filling in plinth
 - (ii) Damp proof course
 - (iii) White washing
 - (iv) Distempering 10

Section-D

8. (a) What is Muster Roll ? What are the rules for writing muster roll ? Give common irregularities which may occur in the maintenance of muster roll. 15
- (b) Explain the rental-return method of valuation in detail. 5
9. (a) What is tender ? What are the various features essential for a tender ? 10
- (b) Describe the following terms : 10
- Depreciation fund
 - Salvage and Scrap value
 - First and final bill
 - Different types of payments