

8

(Set-1)

B.Tech-8th
Estimation and Professional Practice

Full Marks : 70

Time : 3 hours

Answer Q. No. 1, which is compulsory and any five from the rest

The figures in the right-hand margin indicate marks

1. Answer the following questions : 2 × 10
- (a) Write down the unit of measurement and unit of payment for Arch work and DPC.
 - (b) When it is necessary to prepare revised estimate ?
 - (c) What do you mean by provisional quantities ? Write its advantages.
 - (d) What is analysis of rate ? What is the purpose of rate analysis ?
 - (e) List the principles adopted while writing the specification.

(Turn Over)

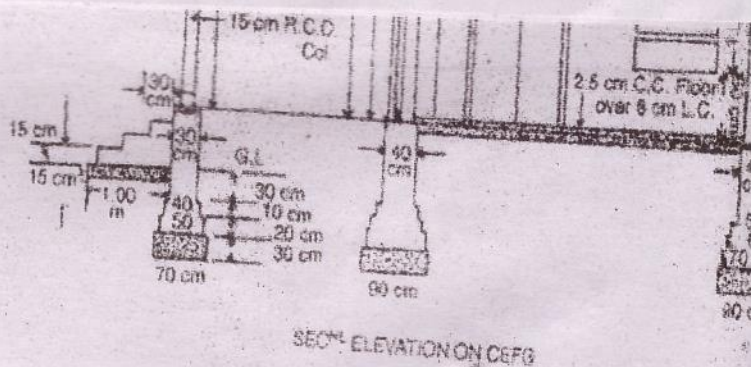


Figure 1

- (f) What are the general specifications of First Class Building work ?
- (g) Enumerate the disadvantages of unit price contract.
- (h) Differentiate between Cost and Value.
- (i) Write the work breakdown structure of excavation of foundation of a building.
- (j) What is Security Deposit ?
2. Estimate the quantities of following items of work for a building as shown in figure 1 10
- (a) Earth work in excavation
- (b) First Class Brick work in foundation and plinth.
3. Estimate the quantities of following items of work for culvert as shown in figure 2 10
- (a) Earth work in excavation
- (b) Cement pointing 1 : 2.

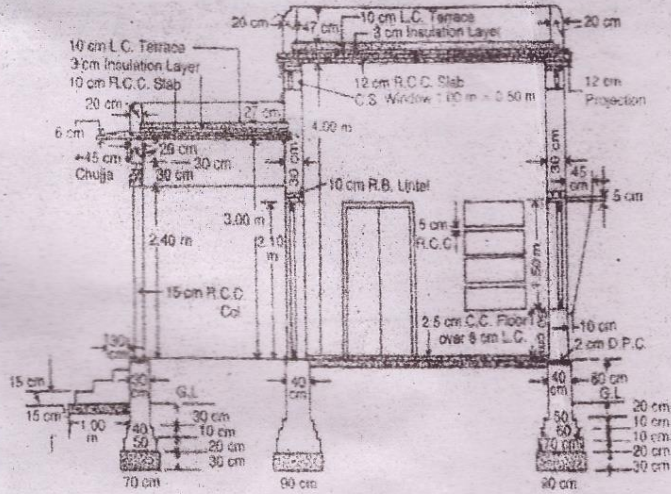
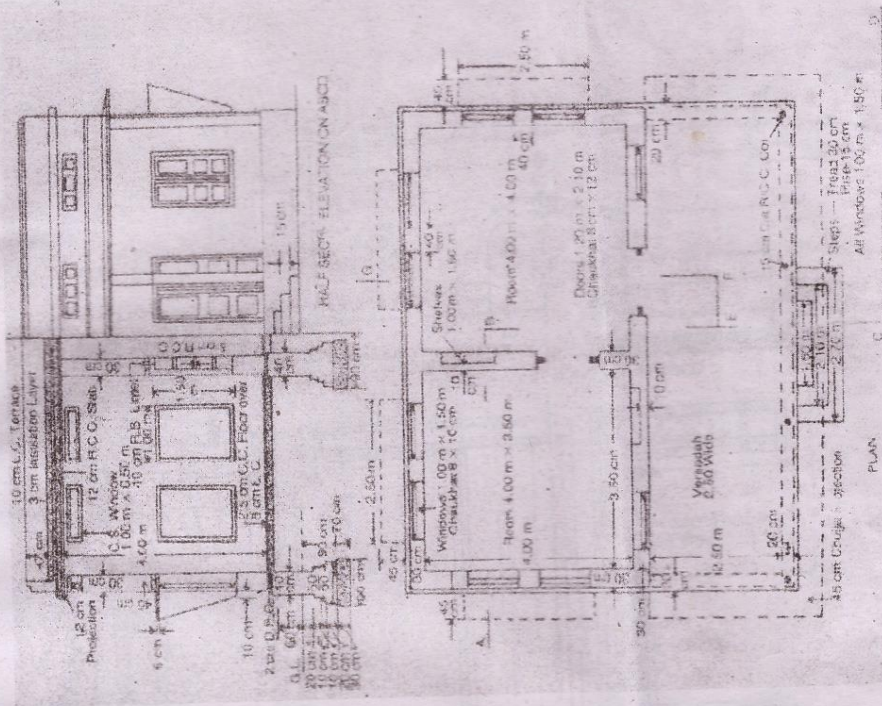
4. (a) Write the rules for preparation of Muster Rolls in carrying out work.
- (b) What are the documents need to be attached for the contract agreement, which should be duly endorsed and sealed ? 10
5. (a) Give the rate analysis per cum cement concrete 1 : 5 : 10 in foundation.
- (b) Find out the quantities of materials required for random rubble masonry in cement mortar 1 : 6. 10
6. (a) Outline the detailed specification for first class brick work in lime Surki mortar.
- (b) Outline the detailed specification for terrazzo floor for drawing room 4-3 x 5-5 m. 10
7. (a) What are the expenses that need to be incurred to maintain the revenue of the building ?
- (b) What do you mean by capitalised value ? Explain with example. 10

(4)

8. Write short notes of the following : 10

- (i) Contingency and Supervision Charge
- (ii) Long wall method of building estimate
- (iii) Cost plus percentage contract
- (iv) Schedule of rates.

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SECTION ELEVATION ON CDEF

Figure 1