Unit III

5. What is the procedure of doing Rate analysis in a construction project ? Explain the process of doing rate analysis of Concreting and Excavation. **15**

6. Explain the tendering process of awarding tender to contractor. What are the advantages and disadvantages of using each type of contract ? **15**

Unit IV

7. Explain the process of arbitration used in construction projects. What are the qualifications of an arbitrator and how are the arbitrators selected for a project ? **15**

8. Explain the process of preparation of Feasibility report of construction projects. Why is it beneficial to prepare feasibility report for project ? **15**

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B. Tech. EXAMINATION, Dec. 2017

(Seventh Semester)

(B. Scheme) (Main & Re-appear)

(CE)

CE-407-B

ESTIMATING AND COSTING

Time : 3 *Hours*] [*Maximum Marks :* 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks. Assume any data if necessary.

Unit I

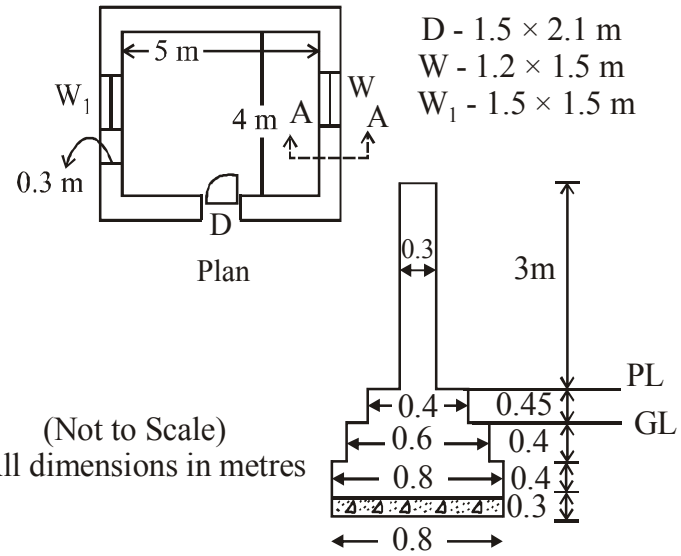
1. Figure below shows a plan of a single room building 5 m × 4 m. Estimate the quantities and cost of folowing items using centre line method : **15**

(a) Earthwork in excavation @ Rs. 3,000/cum

(b) Concrete in foundation @ Rs. 4,000/cum

(c) Brick work in foundation and plinth @ Rs. 2,000/cum

(d) Brick work in superstructure @ Rs. 3,000/cum.



2. Explain following methods for calculating the quantity of earthwork : **15**

(a) Mid-sectional Area Method

(b) Mean sectional Area Method.

Unit II

3. Explain the term specifications used in buildings. Explain the General specifications of all components used in first class building. **15**

4. Write detailed specifiations on any *three* of the following items : **15**

(a) Plain cement concrete in Foundation

(b) Reinforced cement concrete in beam 1 : 1.5 : 3

(c) Damp proof course at plinth level 2.5 cm thick c.c. 1 : 1.5 : 3

(d) First class brick work

(e) Centering and Shuttering.