

**B.Tech. 7th Semester (Civil Engineering)**

**F-Scheme Examination**

**May-2017**

**ESTIMATING & COSTING**

**Paper- CE-405-F**

*Time allowed : 3 hours]*

*[Maximum marks : 100*

*Note : Question No.1 is compulsory. Attempt one question from each section.*

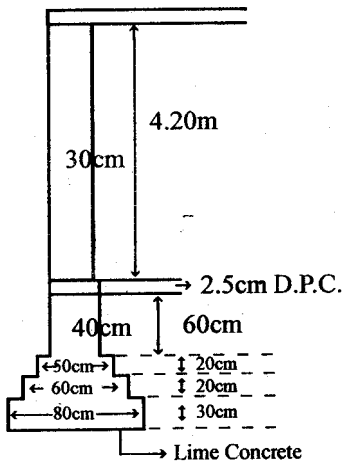
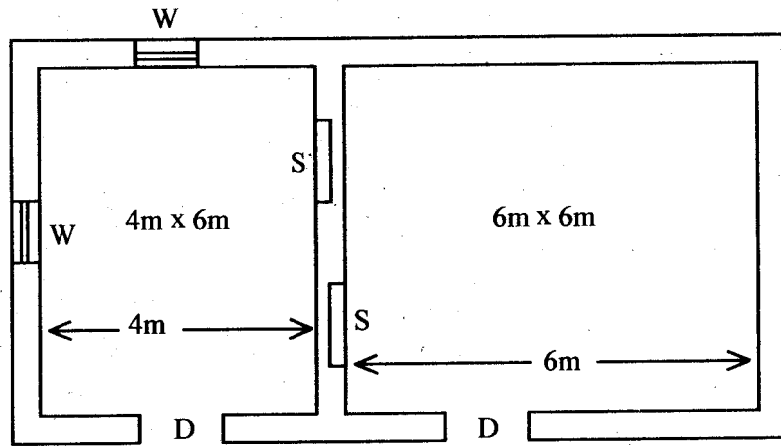
1. Explain the following :
  - (a) Principle of Estimation. 4
  - (b) Necessity of specification 3
  - (c) Sinking Fund. 3
  - (d) Salvage and scrap value. 4
  - (e) Purpose of valuation. 3
  - (f) First and final bill. 3

**Section-A**

2. Estimate the quantities of following item of two roomed building :
  - (a) Earthwork
  - (b) Lime concrete in foundation
  - (c) Ist class brickwork in cement mortar 1:6 in foundation and plinth.
  - (d) 2.5cm D.P.C.
  - (e) Ist class brickwork in lime mortar in super structure.

(2)

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Door - D - 1.20m x 2.10m  
 Window - W - 1.00m x 1.50m  
 Shelves - S - 1.00m x 1.50m

20

3. What are the specification of building ? Give Specification for 1st, 2nd and 3rd class building. 20

**Section-B**

4. Write detailed specification for :  
 (a) Earthwork (b) Brickwork 4x5=20  
 (c) D.P.C. (d) Cement Plastering

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5. Explain Necessity of specification and also explain various type of specification. 20

**Section-C**

6. What is rate analysis ? Discuss its importance. What is an approximate quantity of work for an average artisen per day ? 20
7. Write rate analysis for : 4x5=20  
 (a) R.C.C. Work  
 (b) Plastering  
 (c) Painting  
 (d) Earthwork

**Section-D**

8. (a) What do you understand by tender ? What are the various feature essential for a tender ? 10  
 (b) What is the purpose to maintain muster roll ? How is pay bill prepared using muster roll ? 10
9. Write note on :  
 (a) Rental - Return method  
 (b) Principle of Valuation 4x5=20  
 (c) Acceptance of tender  
 (d) Different type of payment