

Roll No. ....

24513

**B. Tech. 7th Sem. (Civil Engg.)  
Examination – May, 2015**

**ESTIMATING & COSTING**

Paper : CE-405-F

*Time : Three Hours ]*

*[ Maximum Marks : 100*

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

**Note :** Students have to attempt *five* questions in total at least *one* questions from each Section. All questions carry equal marks.

**SECTION – A**

1. (a) Briefly explain the different types of estimates discussing when each one is preferred. 15
- (b) How to prepare an abstract estimate. 5
2. Estimate the quantity of :
  - (a) Earth work Excavation,
  - (b) Footing concrete,
  - (c) Masonry in footing,
  - (d) D.P.C and

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P. T. O.

- (e) Brick work in super structure for the building from the given plan and section having following size :  
Wall thickness = 230 mm; head room height = 3.0 m;  
footing concrete = 1 m × 0.3 m; I footing = 0.7 × 0.3 m;  
II footing = 0.5 × 0.3 m ; Basement = 0.4 × 0.4 m ;  
flooring concrete = 150 mm; floor finish CM 1 : 3 = 25 mm; DPC = 20 mm; roof slab = 125 mm;  
weathering course L.C = 75 mm; Assume the base of footing is 1.1 m below GL.

3m × 3m	6m × 3m	3m × 3m
3m × 3m	3m × 3m	6m × 3m

**SECTION – B**

3. Write down the detailed specifications for the following items of works : 20
  - (a) Earthwork in excavation in foundation.
  - (b) Reinforced cement concrete. (RCC)
  - (c) Damp proof course 2.5 cm of cement concrete 1 : 1½ : 3. <http://www.HaryanaPapers.com>
  - (d) Brick work first class.
4. (a) Explain the general specification of a first class building. 10
- (b) How to prepare an abstract estimate ? 10

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### SECTION - C

5. (a) Explain briefly the various factors affecting the rate analysis. 8
- (b) Work out the rate analysis of the following items.
- (i) 230 mm wall in CM 1:3 on ground floor
- (ii) Cement plaster 12 mm thick in CM 1:5. 12
6. (a) Calculate the rate for 1 m<sup>3</sup> of cement concrete 1 : 2 : 4. 10
- (b) Differentiate between 'Analysis of rates' and 'Schedule of rates.' 10

### SECTION - D

7. (a) What is meant by depreciation ? What are the various methods of determining depreciation ? Explain any one briefly. 12
- (b) What are the different purposes for which the valuation is undertaken ? 8
8. (a) What are the different types of contracts ? Explain them briefly with their merits and demerits. 10
- (b) Explain the following : 10
- (i) Tender
- (ii) Tender Notice
- (iii) Security deposit