

**DIPLOMA IN CIVIL ENGINEERING  
(DCLEVI)**

**Term-End Examination 00163**

**December, 2012**

**BCE-042 : ESTIMATING & QUANTITY  
SURVEYING-II**

*Time : 2 hours*

*Maximum Marks : 70*

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*Note : Attempt five questions in all. Question no. 1 is compulsory. Assume suitable data wherever required.*

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1. Select the correct answer from the given alternatives : 7x2=14
- (a) For preparation of "Abstract of Qty. and prices" in MES, form no. used is :
- (i) IAFW - 2158
  - (ii) IAFW - 1833
  - (iii) IAFW - 1787
  - (iv) IAFW - 2264 AND 2264 A
- (b) 'Per Cell' is the service unit for :
- (i) School building
  - (ii) Cinema Halls
  - (iii) Hospital
  - (iv) Prison

- (c) The unit of measurement for Glazed door shutter is :
- (i) Cubm
  - (ii) Sqm
  - (iii) Nos.
  - (iv) R/Mtr.
- (d) Major factor affecting Analysis of Rate is :
- (i) Cost of Tool and Plants
  - (ii) Overhead charges
  - (iii) Cost of site condition
  - (iv) Labour Cost
- (e) Capacity of concrete mixing machine is indicated by 400/300 which means :
- (i) Wet/Dry capacity
  - (ii) Dry/Wet capacity
  - (iii) Sand/Cement capacity
  - (iv) Sand/Aggregate capacity
- (f) "Plasterer" is a labour of category :
- (i) Unskilled
  - (ii) Skilled
  - (iii) Semi skilled
  - (iv) None

(g) MES SSR Part II deals with :

- (i) Rate of items
- (ii) Specification of items
- (iii) Structural Drawings
- (iv) Standard Drawings

2. Calculate the painting area for following types of doors, windows : **14**

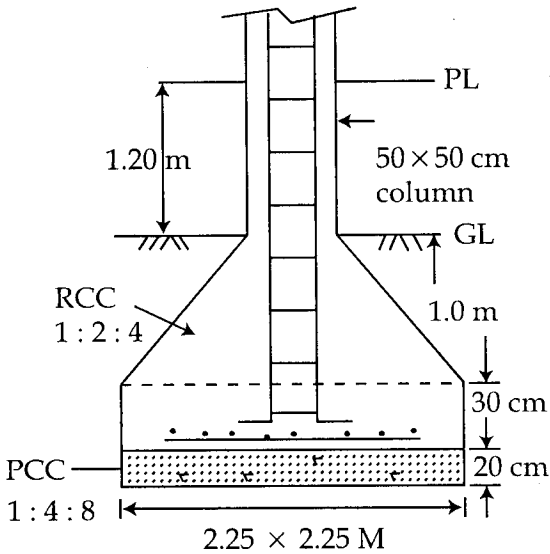
- (a) Panelled door -  $1200 \times 2000$  mm - 3 Nos.
- (b) Glazed window -  $1050 \times 1000$  mm - 5 Nos.
- (c) Rolling shutters -  $2500 \times 1500$  mm - 2 Nos.
- (d) Glazed ventilator -  $900 \times 750$  mm - 5 Nos.

3. Prepare Analysis of Rate for **any two** items of works : **2x7=14**

- (a) Form work to sides of concrete foundations footings, base of column, Raft and Raft beams.
- (b) Brick work 1 : 4 CM Straight or Curved.
- (c) 12 mm thick 1 : 6 CM plastering on new surface.

4. Calculate the following items of works from given Drawing, per metre length in plan :  $3\frac{1}{2} \times 4 = 14$

- Earth work in Excavation
- PCC 1 : 4 : 8
- RCC 1 : 2 : 4 up to GL
- RCC 1 : 2 : 4 up to plinth level

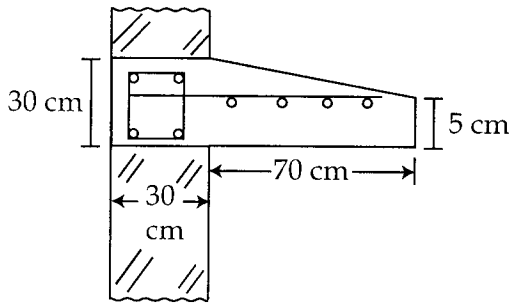


- What are various methods of estimation ? Explain any two methods.  $2 \times 7 = 14$
- A building has four blocks. Plinth area of each block is 750 sqm. Ht. of block is 4.0m. Prepare the estimate of building on cubical content basis. Take Cost per cubic meter Rs. 1850/- and Building Cost Index 37%.

6. A building has 07 Nos. Sun shades provided in it.  
Length of each Sunshade is 1.20 m. **2x7=14**

Calculate :

- (a) RCC 1 : 2 : 4 for S/shed and beam.  
(b) Form work in Sun shed and beam. Assume the width of the window on which the shade is provided.



7. Write short notes on **any four** of the following : **4x3½=14**

- (a) Overhead charges and contractor's profit  
(b) Ordinary Requisition  
(c) Prorata analysis of items  
(d) Abstracting  
(e) Categories of labour  
(f) Star Rates
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