## DIPLOMA IN CIVIL ENGINEERING DCLE(G) / DCLEVI

## **Term-End Examination**

00393

June, 2015

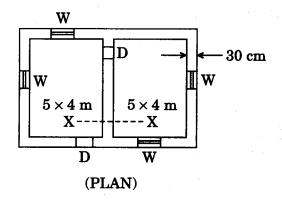
## BCE-034 : ESTIMATING AND QUANTITY SURVEYING - I

Time: 2 hours

Maximum Marks: 70

Note: Question number 1 is compulsory. Solve any other four questions. Assume any missing data. Use of calculator is allowed.

- With reference to the plan and section (Figure 1)
   of a two-room shelter, calculate the following
   items in the usual tabular form: 5+9=14
  - (a) E.W. in filling below and above G.L., separately.
  - (b) Second class B.W. below G.L., above G.L., and in superstructure, if the height of the rooms is 3 m above the floor level.



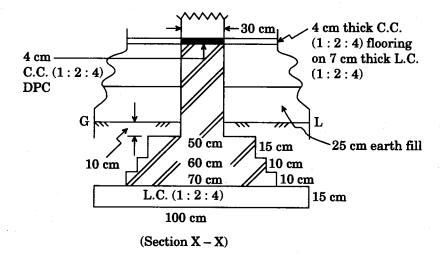


Figure 1

Lintels over D and W are 12 cm thick and 20 cm longer than the opening.

Note: Hatched section indicates second class brick-work.

 $W = 1.2 \times 1.5 \text{ m (High) window}$ 

 $D = 1 \times 2.1 \text{ m (High) door}$ 

2. (a) Compute the E.W. (area) in cutting and filling, separately.

 $AB \Rightarrow Formation level$ 

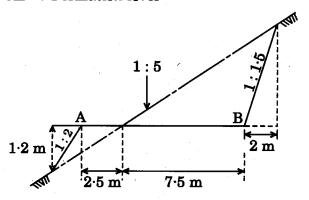


Figure 2

- (b) Prove that under suitable conditions, centre-line and long-and-short wall methods yield same results in building estimation work.
- 3. Assuming suitable rates for men and materials, prepare an analysis of rates for the following items of work:

  7+7=14
  - (a) Earthwork in excavation (in hard soil), assuming 2 m depth of excavation and 30 m distance to dump off the material.
  - (b)  $1 \text{ m} \times 1.5 \text{ m}$  4-piece window wooden chowkat, assuming normal sections of finished pieces.
- 4. Sketch out a typical wooden R.C.C. form-work for a slab-cum-column-cum-beam ceiling formation. Label the items.

14

7

7

5.	Write	out	general	specifications	for	
	following:					7+7=14

(a) Joinery and Glazing

## OR

(b) Plastering and Painting

**6.** Discuss, in detail, the following: 7+7=14

- (a) Classification of works
- (b) Approval and sanction of works
- 7. (a) List out and explain what is understood by contract documents.
  - (b) Explain what is meant by conditions of contract. Bring out the significance of each condition in the execution of works.