B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

00625   **December, 2014**

BICE-010 : QUANTITY SURVEYING AND COSTING

Time : 3 hours   *Maximum Marks : 70*

*Note : Question no. 1 is **compulsory**. Answer any **six** from the remaining questions. All questions carry equal marks.*

1. Write units of measurement for the following items :   *10*

    (a) DPC

    (b) RCC Slab

    (c) Stone Partition Wall

    (d) False Roof

    (e) Filling of Boulders and Rubbles

    (f) Wood-work for Doors and Ventilation

    (g) Precast Cement Concrete (10 cm thick)

    (h) Pointing

    (i) Air-vent Pipe

    (j) Iron Steps

2. Describe in brief the general specifications for a 1st class building. *10*

3. State the circumstances under which the following estimates are prepared : *10*

   (a) Supplementary Estimates

   (b) Revised Estimates

4. Prepare a Bar Bending Schedule for a roof slab size of 9 m $\times$ 5 m $\times$ 2·15 m with support thickness of 40 cm. *10*

5. Discuss the Standard Mode of Measurement as per IS-1200 for masonry work. *10*

6. Prepare a preliminary estimate of a commercial (shop) building to be constructed using the following data : *10*

   (i) Built-up area of the proposed building = 125 sq.m.

   (ii) Built-up area of the existing building =100 sq.m.

   (iii) Amount spent on construction of the existing structure = ₹ 8 lakhs

   (iv) Existing structure was constructed two years ago

   (v) Rise in price level of materials and labour during previous two years = 10 %

7. Explain the various factors to be considered in fixing the rate of an item. *10*

8. Describe the Prismoidal formula method for calculating an Earth work quantity. *10*

9. Explain the Centre Line Method of building estimates with a neat sketch. *10*

10. Write short notes on any *two* of the following : *2×5=10*

   (a) Dual Rate Interest

   (b) Rent fixation of building

   (c) Bills of Quantities