B.TECH. CIVIL ENGINEERING

Term-End Examination

December, 2013

BICE-010 : QUANTITY SURVEYING AND COSTING

Time : 3 hours   *Maximum Marks : 70*

*Note : Question **No. 1** is compulsory and in the remaining, answer any six. Use 6 scientific calculator is permitted.*

1. Write the dimensions/parameters to be considered in measuring quantities for each item given below :   **10x1=10**
    (a) Brick work
    (b) Excavation
    (c) Concrete
    (d) Window
    (e) Plastering
    (f) Painting
    (g) Reinforcement bars
    (h) Stone masonry
    (i) Earth filling
    (j) P.C.C.

2. What is meant by Approximate Estimate ? **10**
    Explain the general principles of approximate methods of costing.

3. Explain the major and minor factors involved in **10**
    the preparation of the rate of an item.

4. A building which is located in a suburb, with built **10** up portion of 20m × 15m, has to be purchased. The building has good water supply, sanitary and electrical fitting works. The age of the building is 25 years. Workout the valuation of the building, with the given data :
   (a) Cost of the land = Rs. 500/- per sq.m
   (b) Plinth area rate = Rs. 1250/- per sq.m
   (c) Life of the building = 100 years
   If any other data is necessary, assume it suitably.

5. Define Depreciation. Explain the different **10** methods of calculating depreciation.

6. Write short notes (**any two**) : **5x2=10**
   (a) Rent fixation of buildings
   (b) Rate Analysis
   (c) Importance of Estimate

7. Differentiate between Measurement sheet and **10** Abstract sheet. Also bring out the significance of Abstract sheet.

8. Explain the difference between Revised and **10** Supplementary estimate. Also bring out their application in construction project management.

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