B.Tech-VIEP Civil Engineering. V Sem,

Term-End Examination

December, 2011

BICE-010 : QUANTITY SURVEYING AND COSTING

Time: 3 hours Maximum Marks: 70

Note: (i) All the questions are to be answered in English only.
(ii) Attempt any seven questions out of Ten.

- 1. Discuss briefly, individual wall method and centre 5+5 line Method of building estimate.
- 2. (a) Describe purpose and importance of sestimates for a project.
 - (b) What is measurement book? Give the format of measurement book for recording work done. What are the main precautions in writing M.B.?
 1+2+2
- Describe different types of estimate and its 10 importance.
- Write the units of measurement for the following items:
 - (a) Earth filling in Trenches of foundation
 - (b) Earth work in plinth

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- (c) D.P.C. (Thickness specified)
- (d) Drip course, coping
- (e) stone masonary
- (f) Fabrication of steel work.
- (g) steel doors and window
- (h) RCC. / R.B. roof
- (i) skirting (Thickness specified)
- (j) 2.5 cm C.C. Floor.
- Prepare analysis of rate as per market rate for one cu.m. of R.C.C. 1: 1½: 3. (1 cement: 2 coarse sand: 4 stone ballast 20 mm nominal size).
 Assuming suitable date and rate for material and labour.
- 6. Prepare Analysis of rate for plastering 1:6 10 (1 cement: 6 coarse sand). Calculate cost for an area of 1000 sqm. of plastering work. (Rate/shall be as per analysis of rate/sqm.)
- 7. Calculate quantities of material for RCC (1:2:4) 10 in roof slab having roof area of 5 m x 3.15 m with roof thickness of 140 mm and steel use @ 1%. (stone aggregate, sand, cement, steel).
- 8. Describe Mid-sectional Area methods and 5+5 Prismoidal formula method to calculate volume of the earth work of a road.

9. A building is situated beside of National Highway (NH) 40 Land area 700 sqm. The built up portion is 40% of land area. The building is having Grade A construction with water supply and sanitary, electric fittings. Age of building is 20 years work out the valuation of said property life 100 years.

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- (a) Cost of Land @ Rs. 600 per sqm.
- (b) Plinth area rate @ Rs. 3500 per sqm. including water supply and other fittings.
- (c) Assume suitable date.

10. Write short notes any two:

5x2

- (a) Technically sanctioned estimate.
- (b) Factor affecting cost of work.
- (c) Difference between Preliminary estimate and detailed estimate.