

00575

B.Tech-VIEP Civil Engineering. V Sem,

Term-End Examination

June, 2012

**BICE-010 : QUANTITY SURVEYING AND
COSTING**

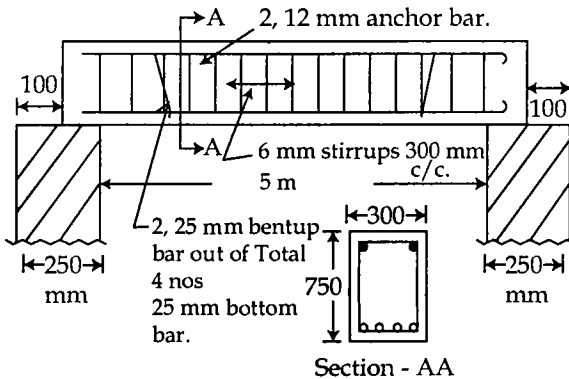
Time : 3 hours

Maximum Marks : 70

*Note : (i) All questions are to be answered in English only.
(ii) Question No. 1 compulsory and answer
any six questions from remaining.*

1. Write the unit of measurements of each item given below : **1x10=10**
- (a) DPC of 25 mm thickness specified
 - (b) Iron work in steel roof Truss
 - (c) C.I. pipe dia specified
 - (d) Rolling shutter
 - (e) Polishing of wood work
 - (f) String course, Drip course
 - (g) Supply of bricks
 - (h) Renewing of Glass panes (supply)
 - (i) Dismantling Brick masonry
 - (j) RCC in column

2. Describe main items of works for a R.C.C. buildings (Brief Descriptions of items only taken for preparation of estimate). **10**
3. (a) Differentiate between Preliminary estimate and Revised estimate. **5+5**
 (b) Define the following (i) administrative approval (ii) expenditure sanction (iii) Technically Sanctioned estimate.
4. Prepare analysis of rate for two bed room flat, upto plinth level using conventional bricks. The rates for material labour, and other component shall be assumed suitably, proportion 1 : 6 (1 cement.. : 6 coarse sand) **10**
5. Prepare detail estimate with abstract sheet for RCC beam shown in figure. **10**
- (a) CC 1 : 1.5 : 3
 (b) Centering and shuttering work
 (c) HYSD steel bar
 (d) Mild steel bar for stirrups



6. (a) What are the essential component of analysis of rate ? **5+5**
(b) What are the factors affecting valuation of a building ? Describe Depreciation method of valuation.
7. A building is situated beside the NH-40, the plot area is 700 cm². The built up portion is 40% of plot area. The building is having grade A construction with water supply and sanitary, electrical fittings. Age of building is 20 years. Work out valuation of said property. Life 100 years. **10**
(a) cost of plot Rs. @ 600 per sq.cm
(b) Plinth area rate @ Rs. 3500 Per sq.cm
(c) Assume suitable data if any
8. Write short notes (*any two*) : **5x2=10**
(a) Provisional Quantities in estimate
(b) Sinking Fund
(c) Mean sectional area method of calculation of earth work for road.
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