

**B.Tech. Civil (Construction Management)**

00559

**Term-End Examination**

**June, 2014**

**ET-521(D) : QUANTITY SURVEYING AND  
VALUATION**

*Time : 3 hours*

*Maximum Marks : 70*

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**Note :** Attempt any **five** questions. All questions carry equal marks. Use of scientific calculator is permitted.

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1. (a) Discuss in brief the various factors which should be considered while preparing an estimate of an office building. 7
- (b) Classify construction estimates on the basis of purpose for which they are prepared. 7
2. (a) Calculate the plinth area of a building having a carpet area of 1500 m<sup>2</sup>. It may be assumed that 30% of the built-up area will be taken by corridors, verandah, lavatories, staircases, etc., and 10% of the built-up area will be occupied by walls. 7

- (b) Write the units of measurement of the following items : 7×1=7
- (i) Well sinking
  - (ii) Stone work in wall facing
  - (iii) Sand filling under floors
  - (iv) Damp proof course
  - (v) Quarrying of stones
  - (vi) Painting
  - (vii) Mass concreting
3. (a) Explain the use of computers for estimation and tender document preparation. 7
- (b) Critically examine the role of specifications in quality control. 7
4. Calculate the cost for 1 m<sup>3</sup> of lime concrete in foundation with 40 mm gauge brick ballast, white lime and surkhi. Take the proportion as 1 lime : 2 surkhi : 6 brick ballast. Assume the cost as per prevailing market rate. 14
5. (a) Explain the procedure for acquisition of land. 7
- (b) Describe the basic elements of natural justice. 7

6. A building is having a gross rent of ₹ 12,000 per month. Assuming 30% outgoings for taxes, 15% for repairs and maintenance and 5% to set aside to accumulate the cost of buildings, determine its capitalized value at 6% interest per annum. 14

7. Write short notes on the following :  $4 \times 3 \frac{1}{2} = 14$

- (a) Supplementary Estimate
- (b) Bills of quantities
- (c) Years Purchase method
- (d) Computerisation of Estimates

8. Differentiate between the following :  $4 \times 3 \frac{1}{2} = 14$

- (a) Book value and Market value
  - (b) Depreciation and Replacement cost of building
  - (c) Secured and Unsecured ground rent
  - (d) Covered area and Carpet area
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