

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

00313 **Term-End Examination**

**June, 2018**

**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) Explain in brief the major subheads or groups into which a detailed estimate of a building project is divided. 7
- (b) What do you mean by abstracting of quantities and how is it done? 7
  
2. (a) A school building is proposed to be constructed for 400 students. Calculate the plinth area. It is given that 7
  - (i) Carpet area per student :  $1.5 \text{ m}^2$
  - (ii) 20% of the built-up area occupied by the corridors, verandah, lavatories, staircases, etc.
  - (iii) 15% of the built-up area will be occupied by walls.

- (b) Write the units of measurement for the following : 7×1=7
- (i) Rough excavation
  - (ii) Stone work in wall facing
  - (iii) Barbed wire fencing
  - (iv) Damp proof course
  - (v) Brickwork in arches
  - (vi) Painting
  - (vii) Glazing
3. (a) State the features of a latest software which can be used in the preparation of building estimates. 7
- (b) Discuss the detailed specification of cement concrete  
 1 (cement) :  $1\frac{1}{2}$  (fine aggregate) : 3 (coarse aggregate). 7
4. Calculate the cost of 1 m<sup>3</sup> of RCC 1 : 2 : 4 (1 cement : 2 coarse sand : 4 stone aggregate) work in beams. Assume suitable data wherever it is not provided. 14
5. (a) What do you mean by valuation ? Discuss the purpose of valuation of immovable property. 7
- (b) Briefly describe the important features of the Urban Land (Ceiling and Regulation) Act. 7

6. A building is fetching a gross rent of ₹ 15,000 per month. Assuming 30% outgoings for taxes, 15% for repairs and maintenance and 5% to set aside to accumulate the cost of buildings, determine the 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) Specification
- (c) Depreciation
- (d) Acquisition of Land

8. Differentiate between the following :

$$4 \times 3 \frac{1}{2} = 14$$

- (a) Covered area and Carpet area
  - (b) Market value and Book value
  - (c) RAM and ROM
  - (d) Scrap and Salvage value
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