

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

December, 2017

00632

BICE-010 : QUANTITY SURVEYING AND COSTING

Time : 3 hours

Maximum Marks : 70

*Note : Answer any **seven** questions. All questions carry equal marks. Use of scientific calculator is allowed.*

1. Write short notes on the following : 10
 - (a) Schedule of Rates
 - (b) Rent Fixation of Buildings
 - (c) Building Cost Index
 - (d) Measurement Book

2. Explain different types of estimates and differentiate detailed estimate with cube rate estimate. 10

3. What are the merits and demerits of percentage rate type of engineering contracts ? 10

4. Perform analysis of rates for first class brick-work in foundation and plinth with the following details :
Brick size = 20 cm × 10 cm × 10 cm
Cement sand mortar = 1 : 6
Assume suitable missing data. 10

5. Write in detail, the different types of specifications and give their advantages and disadvantages. 10
6. A three-storey building is on a plot of land measuring 800 m^2 . The plinth area of each storey is 400 m^2 . The building is an RCC framed structure. The future life may be taken as 70 years. The building fetches a gross rent of ₹ 1,500 per month. Work out the capitalized value of the property on the basis of 6% net yield. For sinking fund 3% compound interest may be assumed. Cost of land may be taken as ₹ 40 per m^2 . Other data may be assumed suitably. 10
7. Explain the different methods of valuation and purposes of valuation. 10
8. Write down the general specifications of a modern road. 10
9. Explain the following : 10
- (a) Type of Leases
 - (b) Mortgage
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