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BICE-010**B.Tech. CIVIL ENGINEERING (BTCLEVI)****Term-End Examination, 2019****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 permitted.

1. Explain different types of estimates and differentiate detailed estimate with cube rate estimate. [10]
2. Differentiate between the following : [10]
 - (a) Measurement sheet and Abstract sheet
 - (b) Lead and Lift
 - (c) Circulation area and Floor area
 - (d) Plinth area rate and Conical content rate
3. What do you understand by Current Schedule of Rate ?
On what factors does it depend ? [10]
4. Describe the separate wall method of building estimate with a neat sketch. [10]

5. Calculate the material requirements for : [10]
- (a) 12 mm thick plastering in wall for 100 sq.m.
 - (b) 25 mm thick cement concrete floor for 100 sq.m.
6. What do you understand by Rate Analysis ? Describe in detail. [10]
7. A government accommodation is built at a cost of Rs. 60,000/-. The water supply and sanitary and electrical installation expenditure is Rs. 15,000/-. Calculate the standard rent of the building if the following rate of return are fixed : [10]
- (a) 6% on construction cost
 - (b) 1.5% towards maintenance of building work
 - (c) 4.5% on maintenance of installation
 - (d) Rs. 120/- as property tax per year
 - (e) Cost of land is to be neglected
8. Describe in detail, the calculation of earthwork for roads in hilly areas. [10]
9. Briefly discuss the general specifications of a 1st class building. [10]

10. Write short notes on the following : [4x2.5=10]

- (a) Sinking Fund
- (b) Dual Rate Interest
- (c) Abstract Sheet
- (d) Methods of Valuation

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