

**B.Tech. CIVIL ENGINEERING (BTCLEVI)**

**Term-End Examination**

00673

June, 2018

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

*Time : 3 hours*

*Maximum Marks : 70*

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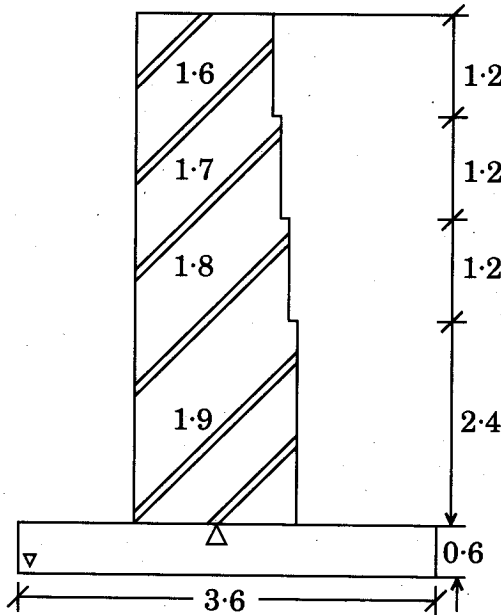
*Note : Answer any **seven** questions. All questions carry equal marks. Use of scientific calculator is permitted.*

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1. Write short notes on the following : 10
  - (a) Floor Area
  - (b) Book Value of Property
  - (c) Plinth Area
  - (d) Centre Line Method
  
2. What are the points to be considered in report writing ? Explain the residential building report. 10

3. A colonizer intends to purchase a land of  $1,00,000 \text{ m}^2$  area located in the suburb of a big city to develop plots of  $700 \text{ m}^2$  each after providing necessary roads, park and other amenities. The current sale price of small plots in the neighbourhood is ₹ 300 per  $\text{m}^2$ . The colonizer wants a net profit of 20%. Work out the maximum price of the land at which the colonizer may purchase the land. 10
4. Prepare a detailed estimate of quantities for the following items of a 100 m length of retaining wall shown in Figure 1. 10
- (a) Brickwork in CM 1 : 4
- (b) Plain cement concrete 1 : 4 : 8



(All dimensions are in metres)

Figure 1

5. Write different types of estimates and explain them in detail. 10
6. Work out the quantities of materials required for 1 m<sup>3</sup> first class brick work in cement mortar in 1 : 6 ratio. 10
7. What is Current Schedule of Rates (CSR) ? On what factors does it depend ? 10
8. Define and explain the following with suitable examples :
- (i) Prime cost
  - (ii) Supplementary cost 10
9. Describe in detail the purpose of rate analysis and also discuss the various factors affecting rate analysis. 10
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