

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

June, 2015

BICE-010 : QUANTITY SURVEYING AND COSTING

Time : 3 hours

Maximum Marks : 70

Note : Question no. 1 is compulsory. Answer any six from the remaining questions. Assume any suitable data, if missing.

1. Write the units of measurement for the following works : 10
- (a) Plastering Work
 - (b) Brick Partition Wall
 - (c) Skirting 15 cm height
 - (d) Marble Cladding for Circular Column
 - (e) Rolling Shutter
 - (f) Collapsible Shutter
 - (g) Air Vent-Pipe
 - (h) Surface Dressing
 - (i) RCC Sun Breaker
 - (j) Dado

2. Explain the difference between accounts of "Stock & tools and plants". 10
3. What are "overhead charges" ? Discuss the various factors affecting cost of work. 3+7=10
4. Prepare a Bar Bending Schedule for a roof slab of size 8 m × 4 m × 1.15 m with support thickness of 30 cm. 10
5. Draw the standard proformas of quantity sheet and material consumption statement form. Draft the specifications for materials to be used in constructing an RCC M-20 slab. 10
6. Prepare a preliminary estimate for a residential building to be constructed using the following data : 10
- (a) Built-up area of the proposed building = 120 sq.m.
 - (b) Built-up area of the existing building = 90 sq.m.
 - (c) Amount spent on construction of the existing structure = ₹ 7.0 lakhs.
 - (d) Existing structure was constructed 3 years ago.
 - (e) Rise in price of materials and labour during last 3 years = 12%.

7. Explain the term "Current Schedule of Ratios (CSR)". Discuss the various percentages to be adopted for different services in building. 10
8. Discuss the method of valuation of a building. 10
9. Explain the various types of estimation techniques and their purposes. 10
10. Write short notes on any *two* of the following : $2 \times 5 = 10$
- (a) Sinking Fund
 - (b) Gross and Net Income
 - (c) Scrap Value Year's Purchase
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