

**B.TECH. CIVIL ENGINEERING**

**Term-End Examination**

**June, 2013**

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

*Time : 3 hours*

*Maximum Marks : 70*

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**Note :** (i) *The questions are to be answered in English only.*  
(ii) *Attempt any seven questions out of ten. Assume missing data if any, use of calculator is permitted.*

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1. Fill in the blanks : **10x1=10**
- (a) No deductions shall be made opening upto \_\_\_\_\_ sq.m.
  - (b) Corrugated sheets shall be measured in \_\_\_\_\_.
  - (c) DPC shall be measured in \_\_\_\_\_.
  - (d) Painting coefficient for panelled doors is \_\_\_\_\_.
  - (e) Brick partition shall be measured in \_\_\_\_\_.
  - (f) Unit of measurement for steel and irons are \_\_\_\_\_.
  - (g) Volume of 1 bag of cement is \_\_\_\_\_ cu.ft.
  - (h) Unit of measurement for skirting is \_\_\_\_\_.

- (i) Unit of measurement for C.C flooring is \_\_\_\_\_.
- (j) Unit of measurement for wood work is \_\_\_\_\_.
2. Describe separate wall method of building estimate with a sketch. 10
  3. What are the different types of estimates? Discuss detailed estimate. 10
  4. Describe prismoidal formula method for calculating an earth work quantity. 10
  5. Write detailed specification for RCC works. 10
  6. Discuss purpose of valuation. 10
  7. Describe the General specification for 2<sup>nd</sup> class building. 10
  8. Prepare a detailed estimate for a septic tank using 1<sup>st</sup> class brick with cm 1 : 4 as per data given below. 10
    - (a) Inner size of tank 2.00 m × 0.90 m effective depth 1.20 m.
    - (b) Foundation and flooring with CC 1 : 3 : 6, 20 cm thick
    - (c) Thickness of wall is 30 cm
    - (d) Cover slab with R.C.C 1 : 1½ : 3, 10 cm thickness.

Assume missing data suitably :

9. Prepare a detailed estimate and bill of quantity 10  
for CC 1 : 3 : 6 road for 1 km length, 3.7 m wide,  
8 cm thick layer. Take prevailing rates of your  
locality.
10. Write short notes on *any two* of the following :  $5 \times 2 = 10$   
(a) Carpet area  
(b) Circulation area  
(c) Depreciation
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