

**(DCE 415)**

**B. Tech. DEGREE EXAMINATION, MAY - 2015**

**(Examination at the end of Final Year)**

**CIVIL ENGINEERING**

**Paper - V : Estimation & Valuation**

**Time : 3 Hours**

**Maximum Marks : 75**

---

**Answer question No. 1 compulsory**

**(15 x 1 = 15)**

**Answer ONE question from each unit**

**(4 x 15 = 60)**

- 1) a) What is muster role?
- b) What is carpet area?
- c) Define estimating.
- d) Define salvage value.
- e) What is Annuity?
- f) Define Mortgage.
- g) Define tothing and bonding.
- h) Define sinking fund.
- i) List out the methods of estimating cost depreciation.
- j) Explain Net income.
- k) What are municipal taxes?
- l) Define contract document.
- m) What do you mean by technical sanction?

- n) Write note on a administrative approval?
- o) Define gross rent?

**UNIT – I**

- 2) a) Explain individual wall method with a suitable example?
- b) Briefly explain the main items of works in estimation and degree of accuracy in estimating.

OR

- 3) a) Explain the various methods of estimating?
- b) Calculating the quantity of brick work in a segmental arch of 2.50 m span, 60 cm rise and 35 cm thick. The breadth of the wall is 35 cm.

**UNIT – II**

- 4) Explain briefly earthwork in canals with different cases.

OR

- 5) Estimate the quantity of earth work in cutting and banking for an irrigation canal.

Details of irrigation canal is as follows :

Bed width = 4m

Top width of left bank = 3m

Side slopes in cutting 1:1

Side slopes of both banks 1½ : 1

Height of bank from the bed = 2.55m

L. Slope of the bed is 1 in 4000m

There is no Traverse Slope of the bed and the ground levels at 6 Consecutive Stations at 50 m intervals are as given below :

	R.L of bed level at station 1 = 98.00					
Station	1	2	3	4	5	6
RL of GL	100	100.30	100.55	100.60	99.60	99.00

### UNIT – III

- 6) Workout the unit rates for the following items of work.
- Coarsed rubble stone masonry in CM (1:6) for the basement of a building.
  - Brick masonry in CM (1:8) with II class bricks for the super structure.
  - Plastering in CM (1:6) 12mm thick.
  - Cement Concrete 1:4:8 in foundation.

OR

- 7) a) Calculate the rate for 10m<sup>3</sup> of coarsed rubble masonry in foundation in cement Mortar (1:6).  
b) What do you understand about the bar bending and what factors plays major roll in the case of bar bending?

### UNIT – IV

- 8) a) Explain the various elements of cost with necessary examples.  
b) What do you mean by depreciation? Explain any three methods of calculating depreciation.

OR

- 9) Explain the following :
- Wealth Tax.
  - Price and value.
  - Plinth Area estimate.
  - Cash book.
  - Technical Sanction.

κβκβ