



MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Paper Code : CE(PC)602 Engineering Economics, Estimation & Costing

UPID : 006732

Time Allotted : 3 Hours

Full Marks : 70

The Figures in the margin indicate full marks.

Candidate are required to give their answers in their own words as far as practicable

Group-A (Very Short Answer Type Question)

[1 × 10 = 10]

1. Answer any ten of the following :

- (I) Tender is an _____.
- (II) Scrap Value is generally taken to be _____ of total cost of construction.
- (III) Contractor shall deposit _____ as security deposit.
- (IV) Examples of physical capital would include machines and tools. A very important fourth factor of production would be the _____ who brings together the resources in order to start a business.
- (V) Management decision problems are comprised of _____ elements.
- (VI) Weight of steel in 1m _____.
- (VII) What is specification?
- (VIII) Calculate the number of cement bags required for 2500 kg of cement _____.
- (IX) Person who settles the dispute is termed as _____.
- (X) Find Depreciation during first five years of cement concrete structure is _____.
- (XI) Item rate is also known as _____.
- (XII) Many decisions involve adding one unit or subtracting one unit. From an economist's point of view, you are thinking at the _____, when you are deciding how much more or less to do of something.

Group-B (Short Answer Type Question)

Answer any three of the following :

[5 × 3 = 15]

2. What is capital Budgeting? [5]
3. What is Lead & Lift? [5]
4. What are the specifications of a second-class building? [5]
5. What is the purpose of rate analysis? [5]
6. For 500000 bricks in 1:3 cement mortar, compute the amount of sand required. [5]

Group-C (Long Answer Type Question)

Answer any three of the following :

[15 × 3 = 45]

7. Write down the Specification for Damp proof course. [15]
8. How do we calculate rate analysis? [15]
9. Short notes: - Earnest money deposit, Open Tender, Global Tender. [15]
10. (a) What is Valuation? Write down the Necessity of Valuation? [3]
- (b) Difference between Scrap Value and Salvage Value? [5]
- (c) The annual sinking fund of a machine costing Rs. 50,000/- is Rs. 150/- and its salvage value is estimated to be Rs. 5000/-. Assuming interest rate as 4%, determine the life of the machine? [7]
11. (a) Write down various advantages and disadvantages of lump sum contract? [6]
- (b) Short Note (Any Three): - Void contract, Turnkey contract, Target Contract, Running Contract. [9]

*** END OF PAPER ***