



BRAINWARE UNIVERSITY

Term End Examination 2024-2025
Programme – B.Tech.(CE)]-2021
Course Name – Estimation and Costing
Course Code - PCC-CE702
(Semester VII)

Library
Brainware University
398, Ramkrishnapur Road, Barasat
Kolkata, West Bengal-700125

Full Marks: 60

Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

- Choose the correct alternative from the following :
- (i) Choose the appropriate unit of measurement for brickwork in a construction project.
 - a) Square meter

b) Cubic meter

c) Meter

- d) Kilogram
- (ii) Write the formula for calculating the unit rate of payment.
 - a) (Total Cost / Total Quantity)

- b) (Labor Cost + Material Cost)
- c) (Cost Per Unit x Number of Units)
- d) (Material Cost / Time Duration)
- (iii) Act by identifying the type of estimate used for public works that is prepared annually.
 - a) Detailed Estimate

b) Annual Maintenance Estimate

c) Supplementary Estimate

- d) Abstract Estimate
- (iv) Write the necessary steps involved in preparing a bar bending schedule.
 - a) List bar types, calculate lengths, detail bend shapes
- b) Estimate total project costs, allocate funds, measure progress
- c) Define material types, hire labor, allocate
- d) Choose the contractor, arrange finances, begin construction
- storage begin construction
 (v) Act by determining the appropriate quantity of steel required for a beam.
 - a) By using the bar bending schedule
- b) By calculating total concrete volume

c) By checking the blueprint

- d) By estimating manually
- (vi) Classify the type of concrete work involved in constructing an RCC underground reservoir.
 - a) Earthwork

b) PCC

c) RCC

- d) Plastering
- (vii) Select the work that requires detailed rate analysis due to varied labor costs.
 - a) Brick Flat Soling

b) Earthwork