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



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BRAINWARE UNIVERSITY

Term End Examination 2025-2026

Programme – Dip.CE-2024

Course Name – Construction Management

Course Code - DCE40201A

(Semester IV)

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

1. Choose the correct alternative from the following :

- (i) Select the primary objective of construction organization.
 - a) Profit only
 - b) Completion of project
 - c) Efficient use of resources
 - d) Decoration
- (ii) Select the meaning of organization in construction management.
 - a) Group of machines
 - b) Structured arrangement of activities
 - c) Site layout
 - d) Material storage
- (iii) Select the role of consultant in project planning.
 - a) Execution
 - b) DPR preparation
 - c) Material supply
 - d) Labour management
- (iv) Select the full form of DPR.
 - a) Detailed Progress Report
 - b) Detailed Project Report
 - c) Design Project Report
 - d) Development Plan Report
- (v) Select the factor affecting layout due to size of project.
 - a) Project cost
 - b) Project duration
 - c) Project scale
 - d) Project quality
- (vi) Select the factor related to availability of utilities.
 - a) Water and power
 - b) Labour
 - c) Finance
 - d) Contract
- (vii) Choose the authority approving land acquisition.
 - a) Contractor
 - b) State Government
 - c) Architect
 - d) Supervisor
- (viii) Select the rule for numbering events in a network.
 - a) Random numbering
 - b) Sequential from left to right
 - c) Alphabetical
 - d) Reverse order

(Short Answer Type Questions)

2. Define organization and state the principles of organization. (3)
3. State the functions of a consultant in construction work. (3)
4. Construct a bar chart for certain project whose activity breakdown is as under (3)

Activity 2 and Activity 3 can be done concurrently and both must follow activity 1. Activity 2 must proceed activity 4. Activity 5 can't begin until both activities 2 and 3 are completed. Activity 6 and 7 can be started only after activities 4 and 5 are complete.

5. Construct a network for the following project and number the events. A is start event and K is the end event. A precedes event B J is successor event to F C and D are successor events to B. D is the preceding event to G. E and F occur after event C. E precedes F. C restrains the occurrence of G and G precedes H. H precedes J and K succeeds J. F restrains the occurrence of H. (3)
6. An activity has earliest start time of 4 days, latest start time of 7 days, and duration of 3 days. Calculate the total float. (3)

OR

Distinguish between event and activity. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Define consultant and state his role in construction projects. (5)
8. Illustrate the role of architect and designer in construction projects. (5)
9. Differentiate between builder and contractor in construction industry. (5)
10. Write a short note on Economic Order Quantity (EOQ). (5)
11. Distinguish between principles governing site layout and factors affecting site layout. (5)
12. Analyze the importance of floats in identifying the critical path of a project. (5)

OR

Analyze the relationship between normal cost, crash cost, and cost slope. (5)

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