



BRAINWARE UNIVERSITY

Term End Examination 2023-2024

Programme – Dip.CE-2022

Course Name – Construction Management

Course Code - DCEPE401B

(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.]

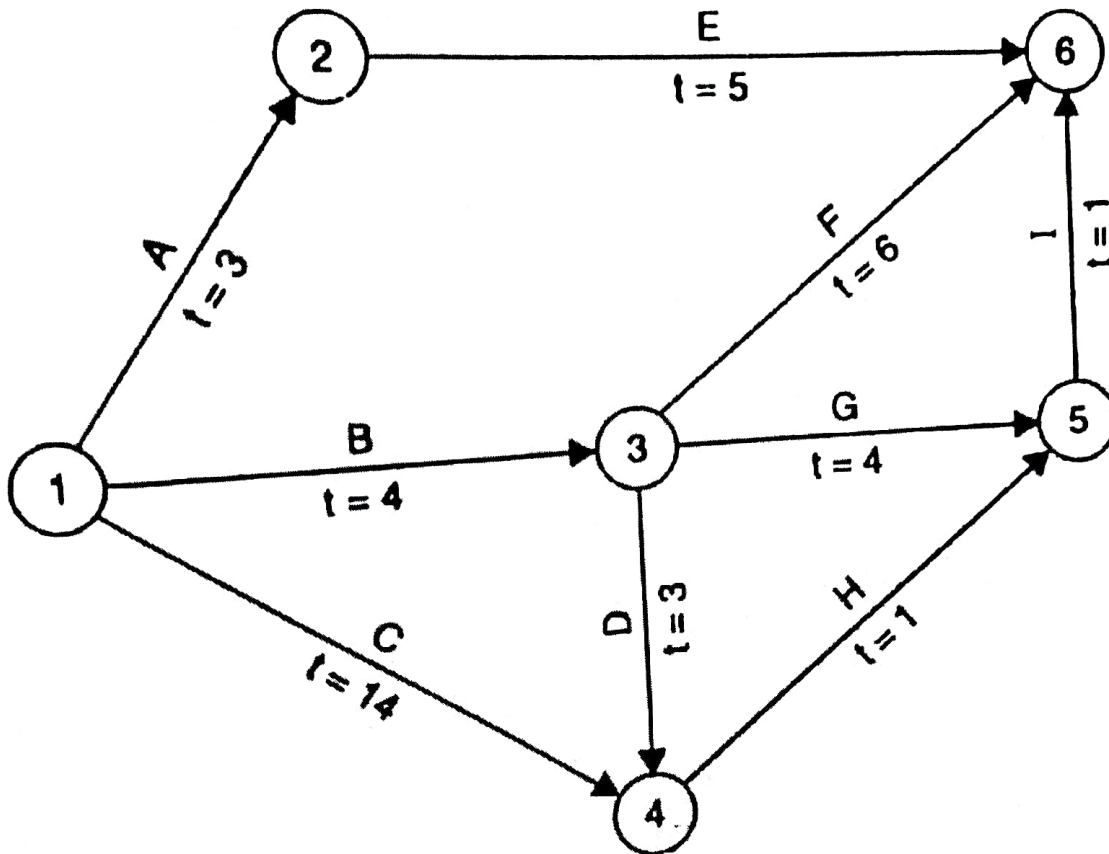
Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Identify the main goal of the construction industry organization:
 - a) Profit maximization
 - b) Quality construction
 - c) Customer satisfaction
 - d) Building and infrastructure development
- (ii) Identify the agency responsible for physically carrying out the construction work:
 - a) Owner
 - b) Promoter
 - c) Builder
 - d) Architect
- (iii) Identify the primary focus of the public construction industry:
 - a) Profit
 - b) Social welfare
 - c) Customer satisfaction
 - d) Innovation
- (iv) Identify the primary purpose of site layout planning:
 - a) Aesthetic appeal
 - b) Efficient space utilization
 - c) Quick construction
 - d) Cost reduction
- (v) Identify the principle that governs the arrangement of buildings, roads, and utilities on a construction site:
 - a) Aesthetic principles
 - b) Functional principles
 - c) Environmental principles
 - d) Economic principles
- (vi) Select the factor that plays a crucial role in determining compensation for land acquisition:
 - a) Architectural design
 - b) Market value of the land
 - c) Construction timeline
 - d) Aesthetic considerations
- (vii) Select the primary role of soil conditions in site layout planning:
 - a) Influences drainage and grading
 - b) Dictates architectural design
 - c) Determines construction material choices
 - d) Affects the appearance of buildings
- (viii) Select the primary purpose of identifying broad activities in construction work:
 - a) To increase project cost
 - b) To improve project safety
 - c) To allot time efficiently
 - d) To enhance project aesthetics
- (ix) Select the graphical representation method commonly used for project schedules:
 - a) Pie charts
 - b) Bar charts
 - c) Line charts
 - d) Scatter plots
- (x) Select the purpose of performance bonds in construction contracts:
 - a) Guaranteeing project completion
 - b) Ensuring worker safety
 - c) Covering design costs
 - d) Providing construction materials



9. Describe the role of consultant for various activities in a construction organization. (5)
10. Explain a short note about the cost-plus contract and the guaranteed maximum price contract. (5)
11. Explain in brief the differentiate between PERT and CPM networks. (5)
12. The activity breakdown for a certain project is as under. (5)

Activity No.	Duration (weeks)
1	1
2	2
3	4
4	3
5	1
6	2
7	4

Activity 2 and activity 3 can be done concurrently, and both must follow activity 1. Activity 2 must precede activity 4. Activity 5 cannot begin until both activities 2 and 3 are completed. Activity 6 can be started only after activities 4 and 5 are completed. Activity 7 is the last activity which can be started only after completion of activity 5. Prepare the bar chart diagram for the project.

OR

A project consists of six activities (jobs) designated from A to F, with the following relationships: (5)

- (i) A is the first job to be performed.
- (ii) B and C can be done concurrently, and must follow A.

(iii) B must precede D.

(iv) E must succeed C, but it cannot start until B is complete.

(v) The last operation F is dependent on the completion of both.

Draw the network diagram for the project.

