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C14-C-505

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BOARD DIPLOMA EXAMINATION, (C-14)

SEPTEMBER/OCTOBER - 2020

DCE—FIFTH SEMESTER EXAMINATION

PROJECT MANAGEMENT FOR CONSTRUCTION

Time : 3 hours ]

[ Total Marks : 80

**PART—A**

3×10=30

**Instructions :** (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. Define construction management.
2. Define administrative approval and technical sanction.
3. List any three duties of resident engineer.
4. Why is dummy activity used in network diagram?
5. Write any three differences between 'activity' and 'event'.
6. List any three advantages of tendering system.
7. Write any three advantages of arbitration.
8. What is the need for mechanization in construction industry?
9. List any three characteristics of an 'entrepreneur'.
10. Write briefly about human resource management.

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## PART—B

10×5=50

- Instructions :** (1) Answer *any five* questions.  
 (2) Each question carries **ten** marks.  
 (3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

**11.** Explain various duties of chief engineer.

**12.** A project has ten activities

|          |     |     |     |     |     |     |     |     |     |     |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Activity | 1-2 | 1-3 | 1-4 | 2-5 | 3-5 | 3-6 | 4-6 | 5-7 | 6-7 | 7-8 |
| Duration | 1   | 3   | 3   | 3   | 4   | 5   | 6   | 5   | 2   | 4   |

- (a) Draw the network diagram.  
 (b) Identify the critical path and mention the project duration.  
 (c) Tabulate various time durations like—EST, EFT, LST, LFT and Float.
- 13.** Distinguish between CPM and PERT methods of network analysis.
- 14.** Explain general conditions of contract for a civil engineering construction project.
- 15.** What are different types of contract? Explain 'lump sum' contract in detail.
- 16.** Write the advantages and disadvantages of 'item rate contract'.
- 17.** (a) Write the objectives of cost control in construction projects.  
 (b) Explain 'indent' and 'invoice'.
- 18.** Explain the role of financial institutions in entrepreneurial development.

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