



C14-C-505

4622

BOARD DIPLOMA EXAMINATION, (C-14)

OCT/NOV—2017

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. Explain administrative approval.
3. Explain the use of bar chart and its limitations.
4. Define CPM and PERT.
5. Define (a) activity and (b) duration.
6. List the qualifications of an arbitrator.
7. State and explain piece work contract.
8. State the advantage of mechanization in construction industry.
9. What is entrepreneurship?
10. State the need for professional ethics.

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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.** State the responsibilities and duties of the Chief Engineering in Government Departments.
- 12.** A project has eleven activities. The expected time of each activity is given below :

| | | | | | | | | | | | |
|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <i>Activity</i> | 1-2 | 2-3 | 2-4 | 2-5 | 3-6 | 5-6 | 5-7 | 4-7 | 6-8 | 7-8 | 8-9 |
| <i>Duration</i> (in days) | 4 | 3 | 5 | 6 | 4 | 7 | 8 | 8 | 5 | 7 | 9 |

Draw the project network and identify the critical path. Draw the table showing EST, LST, EFT and LFT.

- 13.** Distinguish between CPM and PERT methods of network analysis.
- 14.** Explain briefly about tender documents.
- 15.** List various types of contracts in contract system and explain any two briefly.
- 16.** Explain briefly about comparative statements and acceptance of a tender.
- 17.** Explain the necessity of cost control and its importance in a construction project.
- 18.** Explain the role of various institutional support for development of entrepreneurship.
