



C14-C-505

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BOARD DIPLOMA EXAMINATION, (C-14)
MARCH/APRIL—2018
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. Mention the importance of preparation of preliminary planning.
2. List out any three engineering departments of State Government.
3. Differentiate administrative sanction and technical sanction.
4. Define CPM and PERT.
5. Define the following terms :
 - (a) EST
 - (b) LST
 - (c) EFT
6. Write a short note on short tender notice.
7. What are tender and tender notice?
8. Define the following terms :
 - (a) Indent
 - (b) Invoice

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9. Define entrepreneur and entrepreneurship.
10. State the need of professional ethics.

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. (a) Sketch the organizational setup of any engineering department in State Government. 5
 (b) List the duties of resident engineer. 5
12. Draw the CPM network diagram to the following data. Identify the critical path. Draw the tabular form showing the EST, LST, EFT, LFT and floats : 10

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

13. (a) Write the limitations of Gantt bar chart. 4
 (b) Write the advantages of CPM network in execution of a project. 6
14. Explain the following contract systems along with advantages : 5+5
 (a) Lumpsum contract
 (b) Departmental execution of works

15. Explain various sources of disputes in execution of works. 10
16. (a) Write the important qualifications for the appointment of arbitrator. 5
(b) Write the advantages of arbitration. 5
17. (a) Write the requirements of good formwork. 6
(b) Write the objectives of cost control. 4
18. Explain the role of financial institutions in entrepreneurial development. 10
