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BOARD DIPLOMA EXAMINATION, (C-20)

OCTOBER/NOVEMBER—2023

DCE – FIFTH SEMESTER EXAMINATION

CONSTRUCTION MANAGEMENT AND ENTREPRENEURSHIP

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. List out the principles of scientific management.
2. Define the terms (a) technical sanction and (b) detailed estimate.
3. State any three uses of network analysis.
4. Define the terms (a) dispute and (b) arbitration.
5. List the advantages of tender system.
6. List the objectives of financial management.
7. Define the terms (a) indents and (b) invoice.
8. State the role of National Small Industries Corporation (NSIC) in industrial development.
9. State any six characteristics of entrepreneur.
10. Write any three objectives of proper human relations and professional ethics.

- Instructions :** (1) Answer either (a) or (b) of each question.
(2) Each question carries **eight** marks.
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. (a) Draw the flowchart and explain the organization structure of engineering department.

(OR)

(b) Explain the duties of Deputy Executive Engineer in engineering department.

12. (a) Explain scheduling of a project by Modified Gantt Bar Chart.

(OR)

(b) Explain the advantages of CPM and PERT.

13. (a) Define contract document and state the contents of a contract document.

(OR)

(b) Write the procedural steps of the scrutiny of tenders.

14. (a) Explain the various stages in material management.

(OR)

(b) Explain the need for mechanization and the need for optimum utilization of plant and equipment.

15. (a) Explain the need for professional ethics.

(OR)

(b) State the role of human relations and performance in organization.

PART—C

10×1=10

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

16. The following project has activities and the expected time of each activity is given below :

Activity	1-2	1-3	1-4	2-5	3-6	3-7	4-7	5-6	5-8	6-9	7-9	8-10	9-10	10-11
Duration in days	8	9	8	4	6	7	5	4	8	4	6	6	9	7

- (a) Draw project network diagram
- (b) Identify the critical path
- (c) Draw the table showing EST, LST EFT and float

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