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BOARD DIPLOMA EXAMINATION, (C-16)

JANUARY/FEBRUARY—2022

DCE - FIFTH SEMESTER EXAMINATION

CONSTRUCTION TECHNOLOGY AND PROJECT MANAGEMENT

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 workability of concrete and state the relationship between workability and water-cement ratio.
 2. Write any three uses of construction machinery.
 3. State any three requirements of good lighting in building.
 4. State any three requirements of good electrical wiring.
 5. Define construction management.
 6. List any six engineering departments of the Government.
 7. Define earnest money deposit and security deposit.
 - * 8. What is an invoice? State its use.
 9. What are the qualifications required for a licensed surveyor?
 10. List various assisting institutions set up for development of small business.

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[Contd...

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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 criterion for valuation is the content but not the length of the answer.

- 11.** What is curing of concrete? Explain different methods of curing.
- 12.** State and properties and uses of (a) Fiber reinforced concrete and (b) Polymer concrete.
- 13.** List the aspects to be considered during preliminary planning of a road project.
- 14.** Draw the CPM network diagram for the following data. Identify the critical path. Find the total duration of the project :

Activity	1-2	2-3	2-4	3-5	4-5	4-7	3-6	5-7	5-8	6-8	7-8
Duration	6	12	10	36	6	8	10	14	16	0	12

- 15.** What are the different types of contract systems? Explain about lumpsum contract.
- 16.** State the need for departmental execution of works and state any five advantages of it.
- 17.** Explain about various recoveries to be made from the bills to be paid to the contractor.
- 18.** Explain the role of commercial banks in the development of small-scale industries.

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