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BOARD DIPLOMA EXAMINATION, (C-16)

MARCH/APRIL—2021

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. Write any three objectives of using admixtures.
2. State various types of compaction equipment.
3. Write any three requirements of good ventilation in building.
4. Write about HVAC system in building.
5. Mention any three factors involved in construction management.
6. Explain about technical sanction of works.
7. Write short note on EMD and security deposit.
8. State the need for departmental execution of works.
9. State any three requirements to become a licensed surveyor.
10. Write any three assistance programmes meant for small business enterprises.

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PART—B

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.** (a) What is meant by workability of concrete? 2
(b) Explain any two factors in detail which influence the workability. 4+4
- 12.** Explain (a) fiber reinforced concrete and (b) self compacting concrete. 5+5
- 13.** List the aspects of preliminary planning of an irrigation project. 10
- 14.** (a) What are the safety measures to be taken at a construction site? 5
(b) What information is to be included in a tender document? 5
- 15.** Explain in detail about (a) lump sum contract and (b) item rate contract or K-2 form of agreement. 5+5
- 16.** (a) Differentiate between regular and work changed establishments. 5
(b) List any five common irregularities in muster rolls. 5
- 17.** Explain the different modes of payment to contractor. 10
- 18.** Explain the role of commercial banks in the development of small scale industries. 10

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