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C16-C-502

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BOARD DIPLOMA EXAMINATION, (C-16)

JUNE/JULY—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. Mention three advantages of fibre reinforced concrete over ordinary reinforced concrete.
2. State any three factors to be considered in selection of construction equipment.
3. Define day light factor and glare.
4. What are the requirements of electrical wiring in buildings?
5. State any three objectives of planning.
6. Explain about administrative approval of works.
7. Define (a) dummy activity, (b) free float and (c) critical path.
8. Distinguish between regular establishment and work charged establishment.
9. Describe briefly the significance of small scale units.
10. List the formalities to become a contractor.

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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.** State the properties and uses of the following terms : 10
(a) Fal-G concrete
(b) Self-compacting concrete
- 12.** State and explain the different methods of curing of concrete. 10
- 13.** Write the duties of Assistant Executive Engineer in State Engineering Departments. 10
- 14.** (a) What is meant by work order? 4
(b) State any six conditions to be maintained in contract agreement. 6
- 15.** What is a tender? Write the instructions to be considered during scrutiny of tenders. 10
- 16.** (a) Explain the need for inspection of works.
(b) State any five important instructions to be observed while preparing the muster roils. 10
- 17.** Explain different methods of payments to the contractors. 10
- 18.** Explain the assistance provided by various institutions for development of entrepreneurship. 10

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