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C16-C-502

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BOARD DIPLOMA EXAMINATION, (C-16)

MAY/JUNE—2023

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. State any three properties of concrete.
2. State any three factors to be considered for the selection of type of construction equipment.
3. State any three requirements of good ventilation.
4. State the purpose of air conditioning.
- * 5. Define the terms (a) administrative approval and (b) technical sanction.
6. State any three duties of Superintending Engineer.
7. State any three merits of piece work contract.
8. State the necessity for sampling and testing of materials.
9. State any three formalities to become a contractor.
10. State any three opportunities for civil engineers to become an entrepreneur.

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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. Explain the terms (a) fibre reinforced concrete and (b) FaL-G concrete.
12. State any five factors affecting concrete strength.
13. List the aspects to be considered during preliminary planning in respect to a road project.
14. Explain the use of a bar chart and state its limitations.
15. State the safety measures to be adopted in construction industry.
16. State the rules to be followed in recording measurements in measurement book.
17. State any five instructions to be followed in preparation of muster rolls.
18. Explain the assistance provided by any two organizations/institutions in the development of small scale industries.

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