



C16-C-502

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BOARD DIPLOMA EXAMINATION, (C-16)

NOVEMBER—2020

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. Briefly explain any three factors affecting the variation of concrete strength.
2. State various types of compaction equipment.
3. State the requirements of good lighting.
4. What is earthing? Write its necessity.
5. Write the benefits derived by implementing construction management in construction industry.
6. Show the organization structure of any state government engineering department.
7. State any three important causes of accidents in construction industry.

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8. List the recoveries to be made from the bills payable to contractor.
9. Write the essential qualities a person should possess to become a contractor.
10. Write any three assistance programs that are available to promote the small business enterprise.

**PART—B**

10×5=50

**Instructions :** (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criteria for valuation are the content but not the length of the answer.

11. State and explain the ingredients of concrete.
12. (a) Explain about the fiber reinforced concrete.  
(b) What is Fal-G concrete? Mention its aadvantages.
13. Write the duties of Executive Engineer.
14. (a) Explain Earnest Money Deposit and Security Deposit.  
(b) What is the information to be provided in Tender Notice?
15. (a) Explain item rate contract or K-2 rate form of agreement.  
(b) Explain departmental execution of works.
16. (a) Explain the need for inspection of works.  
(b) State the rules to be followed in recording the measurements.
17. Explain different methods of payments to the contractors.
18. Explain the Role of Banks and Financial Institutions in the development of small business enterprises in India.

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