



C16-C-502

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BOARD DIPLOMA EXAMINATION, (C-16)

OCT/NOV—2018

DCE—FIFTH SEMESTER EXAMINATION

CONSTRUCTION TECHNOLOGY AND PROJECT
MANAGEMENT

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 water cement ratio and write the relationship between strength of concrete and water-cement ratio.
2. Write any three factors affecting selection of construction equipment.
3. State any three objectives of electrical earthing.
4. Define glare and mention the factors that cause glare.
5. State any three objectives of construction management.
6. Explain administrative approval.

- * 7. Differentiate between construction stage and construction operation.
- 8. What is an imprest?
- 9. State any three formalities to become a contractor.
- 10. Describe briefly the significance of small scale units.

PART—B

10×5=50

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

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

(3) The answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. State the properties and uses of the following :

- (a) Fal-G concrete
- (b) Self-compacting concrete

12. Explain about

- (a) Concreting in hot weather conditions
- (b) Concreting in high rise buildings

13. Sketch the organizational setup of Panchayat Raj engineering department.

14. Draw the CPM network diagram for the following data:

Activity	1-2	2-3	2-4	2-5	3-6	5-6	5-7	4-7	6-8	7-8	8-9
Duration	6	4	4	5	6	7	8	6	5	6	9

Identify the critical path. Find the total duration of the project.

15. Explain, in detail, about piece work system and item rate contract.

- * **16.** Explain the necessity for sampling and testing of materials.
- 17.** List the common irregularities in a muster roll.
- 18.** List the concessions given to civil engineers to start an enterprise.

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