



C09-C-603

3722

BOARD DIPLOMA EXAMINATION, (C-09)
JUNE—2019
DCE—SIXTH SEMESTER EXAMINATION
CONSTRUCTION AND QUALITY 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 factors involved in construction management.
2. Mention the importance of planning.
3. Write any three advantages of scheduling.
4. Define the terms 'contract' and 'contractor'.
5. List the methods of payment to a contractor.
6. Write a short note on MAS account.
7. List various assisting institutions set up for development of small scale units.
8. What are the requirements of licensed surveyor?
9. Write any three advantages of ISO 9000 certification.
10. Write any three tolerance levels in form work.

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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 the criteria for valuation are the content but not the length of the answer.

11. Explain the data to be collected and aspects to be considered in a project report.
12. Draw the CPM network diagram for the following data :

<i>Activity</i>	1-2	2-3	3-4	2-4	4-6	3-5	5-6	5-7	6-7
<i>Duration</i>	3	18	0	12	6	10	4	12	6

Identify the critical path. Find the total duration of the project. Draw the tabular form showing the EST, LST, EFT, LFT and Float.

13. Explain various contract systems available for construction works.
14. (a) Briefly explain the necessity for sampling and testing of materials.
(b) Explain briefly the need and principles of supervision of works.
15. (a) Briefly explain the terms—Indent, Invoice, Bin card.
(b) Explain the preparation and closing of muster roll.
16. (a) What are the requirements to become a contractor in a department?
(b) List the duties of licensed surveyor.
17. Explain ISO 9000 series of quality systems.
18. (a) Describe the control aspects of batching and mixing of concrete.
(b) Explain the inspection of reinforcement grills.

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