

3722

BOARD DIPLOMA EXAMINATION, (C-09)

OCT/NOV—2013

DCE—SIXTH SEMESTER EXAMINATION

CONSTRUCTION AND QUALITY MANAGEMENT

Time : 3 hours]

[Total Marks : 80

PART—A

Instructions : (1) Answer **all** questions.

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

1. Define construction management. 3
2. List any six aspects to be considered during preliminary planning of minor irrigation project. $\frac{1}{2} \times 6$
3. List the construction stages of a new building project. $\frac{1}{2} \times 6$
4. What is a short tender notice? 3
5. Why have the works to be inspected by higher authorities? 3
6. State the need of pre-measurement and check measurement. $1\frac{1}{2} + 1\frac{1}{2}$

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7. What is the role of a licensed surveyor? 3
8. List the formalities to become a contractor. 3
9. Mention the elements of quality system. $\frac{1}{2} \times 6$
10. State the reason why to avoid rich mortar in brickwork. 3

PART—B

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

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

11. Distinguish between feasibility report and project report.
What are the details to be enclosed in it? 5+5
12. Draw the CPM network diagram for the following data : 3

<i>Activity</i>	1-2	2-3	2-4	2-5	3-6	5-6	5-7	4-7	6-8	7-8	8-9
<i>Duration</i>	6	4	4	5	6	7	8	6	5	6	9

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

Draw the tabular form showing EST, LST, EFT, LFT and Float. 2+5

13. (a) List the information to be furnished in the tender notice. 5
- (b) Explain briefly earnest money deposit and security deposit. $2\frac{1}{2}+2\frac{1}{2}$

14. What is an M-book? Mention the rules to be followed in recording measurements. 2+8

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- 15.** (a) What is NMR? 2
(b) Explain the need of sampling and testing of construction materials. 8
- 16.** (a) List the benefits of TQM.
(b) What are the drawbacks of ISO 9000? 10
- 17.** (a) State the methods to control quality. Explain. 5
(b) List the points to be considered in the inspection of reinforcement. 5
- 18.** Explain the assistance provided by the following institutions : 10
(a) NISIET
(b) SISI
(c) APIDC

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