



c14-c-605

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BOARD DIPLOMA EXAMINATION, (C-14)

MARCH/APRIL—2017

DCE—SIXTH SEMESTER EXAMINATION

QUALITY CONTROL AND SAFETY IN CONSTRUCTION

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 six standards for industrial buildings.
2. Write the detailed specification for (a) compaction of concrete and (b) dewatering.
3. State the control aspects of batching of concrete.
4. Briefly explain visual appearance.
5. Write about the safety use of lifting machinery.
6. State the safety preventions to avoid accidents.
7. State the safety measures on fragile roofing.
8. List the safety measures for storage of building materials.

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[*Contd...*

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9. Mention the safety precautions for scaffolding.
10. State the duties of a security director.

PART—B

10×5=50

Instructions : (1) Answer *any five* questions.
(2) Each question carries **ten** marks.
(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. (a) State CPWD guidelines for junior engineers.
(b) State the management aspects of quality control. 5+5
12. Explain the functional requirements of buildings.
13. (a) Explain the inspection and examination of formwork.
(b) Explain the quality of mortar in masonry. 5+5
14. Explain different types of sampling plans.
15. Describe the fire prevention standards in constructions.
16. (a) Describe the salient features of a safety program.
(b) Describe the safety measures for erection of steel structures. 5+5
17. Describe the safety measures in demolition of buildings.
18. Describe the risk management measures for controlling losses due to personnel, legal and property losses.
