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BOARD DIPLOMA EXAMINATION, (C-20)

MAY/JUNE—2023

DCE - FIFTH 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. Write a short note on modular co-ordination.
2. Identify any three preferred sizes of building components.
3. Write a brief note on the management aspects of quality control.
4. Write a short note on batching.
5. Briefly explain the visual appearance and dimensional accuracies in construction industry.
6. List the preventive methods of accidents in construction.
7. Define accident and list the causes of accidents.
8. Write few points on safety measures to be taken in construction of building elements.
9. Write a short note on risk control process.
10. List the cost controlling measures.

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

11. (a) Explain the inspection of reinforcement grill work.

(OR)

(b) Explain the quality control of good mortar in masonry.

12. (a) Describe briefly the safety program and also explain the major components of safety plan.

(OR)

(b) Describe in brief the safety measures while using the construction machinery.

13. (a) Explain the safety measures to be taken for storage and handling of building materials.

(OR)

(b) Explain the safety measures to be taken in excavation.

14. (a) Describe the safety measures to be taken in demolition of buildings.

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(OR)

(b) Describe the safety measures in fabrication components and erection of steel structures.

15. (a) Explain the planning for accident prevention.

(OR)

(b) Explain the risk management measures for controlling losses due to personnel, legal, liability losses.

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PART—C

10×1=10

- Instructions :** *
- (1) Answer the following question.
 - (2) The question carries **ten** marks.
 - (3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

16. Discuss the firefighting equipment used in fire safety system.

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