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BOARD DIPLOMA EXAMINATION, (C-20)

OCTOBER / NOVEMBER—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. List any three functional aspects of residential structures.
2. Write any three benefits of modular coordination.
3. List any three I.S. Codes relevant to construction field.
4. Describe the quality of filler material.
5. Write a short note on dimensional accuracies.
6. Write any three points on fire prevention standards.
7. Write any three points on accident report.
8. Describe the safety precautions for piling in foundation.
9. Define risk management.
10. Write any three cost controlling measures.

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- Instructions :** (1) Answer either (a) or (b) from each 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) Describe in detail the control aspects of batching and mixing of concrete.

(OR)

(b) Write about the tolerance levels of concrete in construction industry.

12. (a) Describe in detail the safety measures adopted while using construction machinery.

(OR)

(b) Explain about the fire rating of building materials.

13. (a) Describe in detail the safety measures to be taken for hot bituminous works.

(OR)

(b) Describe in detail the safety measures to be taken in erection of prefabricated components and transportation.

* **14.** (a) Describe in detail the safety requirements in formwork and scaffolding.

(OR)

(b) Explain the general safety programmes for a construction.

15. (a) Describe in detail the requirements for accident prevention planning.

(OR)

(b) Explain about the evaluation of risk and loss potential in the work.

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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 risk management measures for controlling losses due to personnel, legal and property losses.

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