

7622

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

 $3 \times 10 = 30$

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.

PART—B 8×5=40

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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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.

