

## c14-c-604

# 4719

### BOARD DIPLOMA EXAMINATION, (C-14) OCT/NOV-2018

### DCE—SIXTH SEMESTER EXAMINATION

CONSTRUCTION FAILURES, REPAIRS AND MAINTENANCE

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.** Define failure and write any two causes of failure.
- **2.** What are design errors?
- **3.** Define settlement and differential settlement.
- 4. List out some causes for failure or earthen bunds.
- 5. What is meant by masonry cladding?
- 6. Define shrinkage and write the types of concrete shrinkage.
- 7. What is rain ponding effect?
- **8.** Explain the term alteration collapse.

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- 9. Define crack and write the types of crack.
- 10. List the leakproof chemicals for RCC roofs.

#### **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. Explain the terms (a) sheeting in subsurface construction failures, and (b) bracing in subsurface construction failures.5+5=10
- **12.** Explain (*a*) revetment, and (*b*) pitching in surface construction failure.
- **13.** Explain, in detail, about various types of failure in masonry wall.
- **14.** (a) Explain about handling of precast concrete elements. 5
  - *(b)* Explain the terms expansion and plastic change occurred in concrete.
- **15.** How are natural disasters caused? Explain the repairs involved in it.
- **16.** What is deterioration? Write the causes of deterioration in buildings.
- 17. Explain the methods adopted to prevent dampness in wall.
- **18.** Explain the maintenance problems in plumbing.

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