

Time: 3 hours]

C14-C-604

[Total Marks: 80

4719

BOARD DIPLOMA EXAMINATION, (C-14) MARCH/APRIL—2017

DCE—SIXTH SEMESTER EXAMINATION

CONSTRUCTION FAILURES, REPAIRS AND MAINTENANCE

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. $1\frac{1}{2}+1\frac{1}{2}=3$ **1.** Define the following: (a) Construction defect (b) Construction failure 2. Mention any six different modes of failures of foundations. 3 3 **3.** State the common construction failures in tunnels. **4.** State any three causes of retaining wall failure. 3 3 **5.** Define spalling of concrete. **6.** State the defects in masonry cladding. 3 **7.** Mention any three causes of natural disaster. 3 3 8. State the effects on building due to storm at sea. **9.** Mention any six defects in buildings. 3 /4719 [Contd...

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	(a) Guniting	
	(b) Cementation	
	PART—B 10×5=	:50
Inst	cructions: (1) Answer any five questions.	
	(2) Each question carries ten marks.	
	(3) Answers should be comprehensive and the criter for valuation is the content but not the length the answer.	
11.	Explain about failures and remedies involved in pile foundations.	10
12.	Explain about failures and control measures involved in stone pitching in surface construction.	10
13.	Explain about wall failures in masonry and mention the repairs involved for rectifying the failures.	10
14.	(a) Explain about the effect of shrinkage in concrete.(b) Explain about the concrete failure due to compression.	5 5
15.	Explain the causes of collapse failures in structures and mention the control measures for rectifying the failures.	10
16.	(a) Explain about failures due to ignorance and negligence.(b) Explain about the supervision in designing and construction.	5 5
17.	(a) Explain about maintenance problems in sewer system.	5
	(b) Explain about maintenance problems in electrical installation.	5
18.	Explain methods of repairs to canal linings.	10

 $1\frac{1}{2}+1\frac{1}{2}=3$

10. Define the following:

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