TED (10)–5001 Reg. No	
(REVISION—2010) Signature	
FIFTH SEMESTER DIPLOMA EXAMINATION IN CIVIL ENGINE MARCH, 2014	EERING—
BUILDING MAINTENANCE AND SERVICES	
	[Time: 3 hours
(Maximum marks : 100)	owing state preso
un-net	
	Marks
PART—A	
(Maximum marks : 10)	
I Answer the following questions in one or two sentences. Each question can	rries 2 marks.
1. What is the effect of sulphate attack on concrete?	
2. What are the causes of structural cracks in buildings?	
3. State maintenance of the buildings.	
4. Name two methods adopted for cleaning small sewers.	
5. Where does use pressure relief valves?	(5×2=10)
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PART—B (Maximum marks : 30)	
	arks
II Answer any five of the following questions. Each question carries 6 ma	diks.
1. Explain effect of frost on concrete.	
2. Explain acid attack on concrete.	
3. How does repair hairline cracks developed in the roof slab by grouti	ng ?
4. What are the requirements of a good damp proofing material?	
5. Name any six methods to control the corrosion of steel reinforcement	nt.
<ul><li>6. State: (i) Syphonic action (ii) Antisyphonic action.</li><li>7. Explain air conditioner and name its types.</li></ul>	(5×6=30)
7. Explain air conditioner and name its types.	(57.0-50)
PART—C	
(Maximum marks : 60)	15 1>
(Answer one full question from each unit. Each question carries	15 marks.)
Unit— $\mathbf{I}$	
III Explain the methods controlling sulphate attack.	15
OR	
IV Explain the effect of W/C ratio on durability of concrete.	15
[320]	[P.T.O.

		Marks
	Unit—II	
V	What are the principal causes of development of cracks in buildings ?	15
	OR	
VI	State preventive measures to be taken against non-structural cracks and structural cracks.	15
	Unit—III	
VII	Explain the causes of damp wall.	15
	OR	
VIII	Explain permanent remedies to damp wall.	15
	Unit—IV	
IX	(a) What are the requirements of joints in pipe?	7
	(b) Describe any four joints in practice.	8
	OR	
X	(a) Explain advantages and disadvantages of G.I. pipes.	7
	(b) Explain sanitary fittings used in building drainage system.	8
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