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		CE - 402		
		B.E. IV Semester		
		Examination, June 2014		
		Concrete Technology	www.rgpvonline.ir	1
		Time: Three Hours		
		Maximum Marks	: 70	
Not	100	compulsory and D part has internal choice.  All parts of each question are to be attempted as		
	i	place.  All questions carry equal marks, out of which pand B (Max. 50 words) carry 2 marks, part C (100 words) carry 3 marks, part D (Max. 400 words)	Max.	
	i	carry 7 marks.  Except numericals, Derivation, Design and Dra	wing	
		etc. Unit - I		
1.	a)	What is cement? Classify different types of cement	t. 2	
	b)	What is the significance of water cement ratio in ce		
		concrete.	2	
	c)	Explain advantages and disadvantages of concrete.	3	
	d)	What is admixture? Describe the various impo	rtant	
		functions the admixtures can perform, if used.  Or	7	
		Explain the various in gradients of cement concrete	with	
		function of each.	7	
		Unit - II		
2.	a)	What do you mean by plastic state and hardened	state	
		of concrete.	2	
	b)	Explain the term workability of concrete.	2	
	c)	Explain creep of concrete.	3	
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	'd)	What do you understand by rheology of concret Mention the factors affecting rheological properties.  Or			
		Explain in detail thermal properties of concrete.  UNIT - III	7		
3.	a)	What is concrete mix design?	2		
	b)	Write short note on sampling and acceptance criteria f concrete.	or 2		
	c)	Explain factors governing concrete mix design.	3		
	d)	What are different methods of concrete mix design			
		Give step by step procedure for proportioning concrete mixes.	of 7		
		Or			
		Describe in detail design of plastic concrete mix.  UNIT - IV	7		
4.	a)	What is curing of concrete?	2		
	b)	Write short note on inspection and testing of concrete	2.		
	c)	What is statistical quality control explain in brief.	3		
	d)	Describe the various techniques used for concreting under-water.	ng 7		
		Or ,			
		List the various tests to ascertain the quality of concret	te.		
		Describe in detail any two of them.  UNIT - V	7		
5.	a)	What is reinforced cement concrete (RCC), how it made.	is 2		
	b)	Explain prestressed concrete.	2		
	c)		3		
	d)	Explain in detail Ready Mix Concrete (RMC) and the admixtures used in RMC.			
		Or			
	6)	Explain polymer concrete and its composition in detail	il.		
			7		
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