			green and the contract of the	
			Roll No	
			CE - 402	
			B.E. IV Semester	
			Examination, June 2014	
			Concrete Technology	
			Time: Three Hours	
			Maximum Marks :	70
No	te:	i)	Answer five questions. In each question part A, B, G	Cis
		•	compulsory and D part has internal choice.	
		ii)	All parts of each question are to be attempted at of	one
			place.	
		iii)	1 1	
			and B (Max. 50 words) carry 2 marks, part C (M 100 words) carry 3 marks, part D (Max. 400 wor	
			carry 7 marks.	usj
		iv)	Except numericals, Derivation, Design and Draw	ing
			etc.	
			Unit - I	_
1.	a)		That is cement? Classify different types of cement.	2
	b)		hat is the significance of water cement ratio in cem	
	- \		oncrete.	2
	c)		kplain advantages and disadvantages of concrete.	3
	d)		That is admixture? Describe the various import	ant. 7
		IU	nctions the admixtures can perform, if used.  Or	/
		E,	xplain the various in gradients of cement concrete w	rith
			nction of each.	7
		10	Unit - II	,
2.	a)	W	That do you mean by plastic state and hardened st	ate
	)		concrete.	2
	b)		xplain the term workability of concrete.	2
	c)		xplain creep of concrete.	3
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	d)	What do you understand by rheology of concrete	e?
		Mention the factors affecting rheological properties.	7
		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	01
	,	concrete.	2
	c)	Explain factors governing concrete mix design.	3
	d)	What are different methods of concrete mix design	n?
		Give step by step procedure for proportioning	of
		concrete mixes.	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.	1g 7
		Or	
		List the various tests to ascertain the quality of concret Describe in detail any two of them.	e. 7
		UNIT-V	
5.	a)	What is reinforced cement concrete (RCC), how it made.	is 2
	b)	Explain prestressed concrete.	2
	c)	What is ferrocement? Explain its advantages in brief.	3
	d)	Explain in detail Ready Mix Concrete (RMC) and the	ne
		admixtures used in RMC.	7
		Or	
	43	Explain polymer concrete and its composition in detail	l.
			7
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