Paper / Subject Code: 40424 / Building Metarials & Concrete Technology

SE (CIVIL)   Sem IV	R-19   SHE	2 ( 9 ( 1 12	22 Code: MARKS: 80	1 6626
	(03 HOURS)		MARKS: 80	

Instructions: (1) Question No.1 is compulsory

Attempt any four out of six.

Q1.

(2) Answer any Three Questions from the remaining questions.

5 Marks Each

(3) Draw neat sketches wherever essential.

	A)	Enlist building construction materials and write their roles in construction	
	B)	Explain the seasoning of stones	
	Б) С)	State physical properties of OPC as per 48 code and explain Normal	
	C)	Consistency, of cement	
	D)	Enlist building construction materials and write their roles in construction Explain the seasoning of stones.  State physical properties of OPC as per IS code and explain Normal Consistency' of cement.  Define workability of fresh concrete and explain factors affecting of it What are the objectives in mix design? Enlist advantages of RMC.	S. E.
	E)	What are the objectives in mix design?	, S. 18
	F)	Enlist advantages of RMC.	
		What are the objectives in mix design? Enlist advantages of RMC.	
02	<b>A</b> )	Explain any five properties of CA and their influence on properties of	crown S
Q2.	A)	concrete	(TOWN)
	B)	Enlist the ingredients of mortar and its applications.	(05M)
	C)	What is admixture? State the various functions of admixture.	(05M)
	U)	Enlist building construction materials and write their roles in construction Explain the seasoning of stones.  State physical properties of OPC as per IS code and explain Normal Consistency' of cement.  Define workability of fresh concrete and explain factors affecting of it What are the objectives in mix design? Enlist advantages of RMC.  Explain any five properties of CA and their influence on properties of concrete Enlist the ingredients of mortar and its applications.  What is admixture? State the various functions of admixture.	(10M) (05M) (05M)
03	A)	What is the name of IS code to measure the workality of fresh concrete?	410M
ŲJ.		Explain any one method to measure workality of fresh concrete.	(4,000)
	் B)	Explain the dry process of manufacturing of cement.	(06M)
		Draw a neat labeled sketch of Modular burnt clay brick with dimensions.	(04M)
3	C)	Braw a negatabeled sketch of thousand bullipolary strain singuistics.	(0.13.14)
Q4.	ASS	Enlist the various components of RMC plant and draw a neat layout sketch	(10M)
YT.	2	of RMC plant	
_\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	B)	Enlist the methods of determining compressive strength of accelerated	(10M)
(V)	Σ)	cured concrete test specimens as per IS 9013 - 2004 Explain any one of	
3	, A.	them.	
05	. A)	Explain types of concrete mixes as per IS 456	(06M)
	B)	Explain Step-by-step procedure to determine Standard Consistency of a	(08M)
0		cement sample in the laboratory by mentioning IS code of it.	un ti
	C)	What are the various methods of NDT? Describe any one with sketch.	(06M)
	S)	The state of the s	
Q6	. A)	Explain demerits of distemper as compared to paints.	(05M)
3		Draw a cross-section of a 'Trunk' of a tree and labeled it.	(05M)
<b>`</b>		Write a note on quality of water for concrete.	(05M)
	D)	Classify concrete based on their grades as per IS 456.	(05M)

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