Hall Ticket Number :															Г			
Code	e: 7I	РТ626		1	1		1	1		J		.]				R-	17	
M.Tech. II Semester Supplementary Examinations February 2020																		
			Ac	dva					e Te		nolo	gy						
Мах	(. M	arks: 60			(511	UCIU		Ingi	neer	ng)					Tir	ne: 3	8 Hou	Jrs
Ansv	ver	all five units	by c	choc	osing	one	•	estic ****		om e	each	n uni	† ((5x1	2 =	= 60 N	<i>N</i> ark:	s)
									IIT–I									
1.	a)	Why is grac concrete?	ding o	of ag	greg	ate ii	npor	tant	with	respe	ect t	o the	e k	oroper	ties	of fr	esh	6M
	 Mention any three important characteristics of aggregates and their influence concrete. 												on	6M				
OR																		
2.	2. Write short motes on Masonry cement, Quick setting cement, and Low heat cement by mentioning the situation when each one is recommended.														12M			
3.	a)	Discuss the effects of using silica fume, slag, Sugar cane bagasse ash on fresh concrete and hardened concrete.												esn	6M			
	b) Describe the process of manufacturing of concrete with flow chart.												6M					
4.	a)	OR Mention the circumstances in which you will recommend the following chemical admixtures. (i) Accelerators, (ii) Air-entraining agents, (iii) Viscosity modifying agents and (iv) Corrosion inhibitors v) Super plasticizer vi) Shrinkage reducing Admixture													6M			
	b)	Discuss the special attentions to be made in the properties of concrete to be used under water.												sed	6M			
								UN	IT–III									
5.		Explain the materials selection for the production of High performance concrete and the salient features of high performance concrete.											12M					
6.		OR Discuss about the problems generally faced in the preparation of super high strength HPC and the solutions to overcome the same.												12M				
7.		Elaborate the types of nondestructive tests recommended for testing a 100 years old concrete dam structure.									ears	12M						
8.	OR Describe the penetration resistance and pull out tests on concrete and it physical significance in the quality control aspects.												its	12M				
~	~ `	UNIT-V														CN4		
9.	a) b)	C C C C C C C C C C C C C C C C C C C											6M 6M					
	OR																	
10.	, .										6M							
b) Differentiate between slip form work and flying form work. 6M												6M						
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