			(3 Hours)	[Total Marks: 1	00
N	.В.	(2) At	nestion No. 1 is compulsory. tempt any four questions out of remaining six questions. ssume suitable data wherever required.		
1.	(a)(b)(c)(d)	Explair Define	entiate between the OPC and PPC. In the effect of properties of aggregate on concrete. Workability of concrete and factors affecting on workability the Marsh cone test in detail.	lity.	5 5 5 5
2.	(a) (b)		are the properties of fresh concrete? Explain in brief. are the various stages of manufacturing of concrete? Exp		10 10
3.	(a) (b)		s in brief various types of admixtures used in concrete. are the properties of hardened concrete? Explain in brief	V	10 10
4. (a) What is concrete mix design? W by IS method.			s concrete mix design? Write step by step procedure of co	ncrete mix design	10
	(b)	•	n extreme weather concreting.		10
5.	(a) (b)		be ultrasonic pulse velocity to carry out non-desctructive to be a typical R.M.C. plant with sketch.	esting of concrete.	10 10
6. (a		param	e 'High performance concrete'. Give its constituents. Wheters considered in the production of H.P.C? Discuss adv	at are the various antages of H.P.C.	12
	(b)				8
7.	(a)	Differ	entiate between :—		10
		(i) (ii)		S.	
	(b)			10	
	` '	(i)) Ferrocement		
		(ii) Self compacting concrete.	•	