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Total No. of Questions: 08	Total No. of Pages : 01
M.Tech. (Civil Engg.) (2016 Batch) COMPOSITE MATERIAL Subject Code: MTCE-201 Paper ID: [74237]	•
Time: 3 Hrs.	Max. Marks :100
INSTRUCTION TO CANDIDATES: 1. Attempt any FIVE questions out of EIGHT questions. 2. Each question carries TWENTY marks.	
Q.1 Discuss in detail effects of supplementary cementing mate concrete.	rials on the fresh properties of (20)
Q.2 a) Write a short note on fiber reinforced concrete. Also me properties of FRC.	ention the factors affecting the (12)
b) Write the applications of different types of fibers in detail	. (08)
Q.3 a) Explain in detail about durability and abrasion resistance	of HVFA. (12)
b) Write the applications of HVFA concrete.	(08)
Q.4 a) Describe in detail various mix design methods for SCC.	(14)
b) Mention the uses of SCC.	(06)
Q.5 Briefly write a note on types of FRP. Also discuss the effect under various loading conditions.	ts of FRP on concrete elements (20)
Q.6 What are polymer composite concrete? Describe any three in	n detail. (20)
Q.7 Describe in detail the effects of waste materials and by- mortar and concrete.	products on the properties of (20)
Q.8 Briefly discuss mechanism of concrete failure at high tempe	rature. (20)