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Total No. of Pages : 01

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**M.Tech. (Civil Engg.) (2016 Batch) (Sem.-1)**

**COMPOSITE MATERIALS**

**Subject Code : MTCE-201**

**M.Code : 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.

1. Describe the various infiltration techniques in making SULPHUR infiltrated concrete.
2. In how many ways can a light weight concrete be produced? Explain.
3. What are Superplasticizers and what are the main objectives of using a super plasticizers for high performance concrete?
4. Discuss the various mechanical properties of Fibre Reinforced concrete.
5. Which properties of Ferro cement make it different from ordinary concrete?
6. What are main constituents of polymer concrete and also explain the use of each constituent in brief?
7. Explain in detail about the chemical composition and types of fly ash. Also explain how chemical composition of fly ash changes the property of OPC.
8. Define High performance concrete. What should be the values of strength, durability and w/c ratio in order to obtain a high performance concrete?

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**