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Total No. of Pages : 01

Total No. of Questions : 08

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

**COMPOSITE MATERIALS**

**Subject Code : MTCE-201**

**M.Code : 74237**

**Date of Examination : 16-01-2023**

**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. What is Volume fraction in Fibre Reinforced Concrete and how does it affect the behaviour in tension, flexure and shear?
2. What is fly ash? From where it is generated ? What are the advantages of using fly ash in materials.
3. Compare the technologies of producing latex-modified and polymer-impregnated concretes.
4. Define Ferro - Cement. What are its applications?
5. Explain infiltration techniques. What is difference between sulphur concrete and sulphur infiltrated concrete.
6. Write in detail about “*Composite Material Approach*”.
7. What is No Fines Concrete? Discuss applications of No Fines Concrete. What is the difference between No fines Concrete and Pumice concrete.
8. Give in detail properties and applications of Silica fume 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.**