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Total No. of Questions : 08

## M.Tech. (Civil Engineering) (Sem.–1,3) COMPOSITE MATERIALS Subject Code : CE-517

M.Code : 35213

Time : 3 Hrs.

Max. Marks : 100

Total No. of Pages : 01

## **INSTRUCTIONS TO CANDIDATES :**

- 1. Attempt any FIVE questions out of EIGHT question.
- 2. Each question carry TWENTY marks.
- 1. What are the various properties of concrete that are affected by addition of fly ash? Briefly explain effect on each property.
- 2. In how many ways can a light weight concrete be produced? Explain.
- 3. What is Superplasticizers? Which superplasticizers are used and what are the main objectives of using a super plasticizers for high performance concrete?
- 4. Discuss the various mechanical properties of sulphur concrete.
- 5. Which properties of Ferrocement make it different from ordinary concrete?
- 6. What are main constituents of polymer concrete and also explain the use of each constituent in bare?
- 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. What are mixing and casting procedures followed with fibre-reinforced concrete?

**1** M-35213

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