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M.TECH

Total Number of Pages :

M.TECH 1ST SEMESTER SUPPLE EXAMINATIONS, DECEMBER 2018
ADVANCED CONSTRUCTION MATERIALS

Branch: SE, Subject Code:MSEPE1042

(Regulations 2017)

Time: 3 Hours

Max Marks : 70

Question Code: SD18002068

PART-A (10 X 2=20 Marks)

1. Answer the following questions.

- What do you mean by high density concrete?
- Define rheology of concrete.
- What is polymer foam? What is its use?
- What do you mean by concrete mix design?
- Give an example of accelerator and retarder.
- What is the advantage of geopolymer concrete?
- State the composition of ordinary Portland cement.
- Give an example of lightweight concrete.
- Distinguish between segregation and bleeding.
- Explain water cement ratio

PART-B (5 X 10=50 Marks)

Answer any five questions from the following.

- What do you mean by non-destructive method of concrete? [5]
 - Explain various methods of non-destructive tests? [5]
- Describe various admixtures in concrete. [5]
 - state the uses of various admixture in concrete. [5]
- Explain the influence of water cement ratio on strength of concrete. [5]
 - Describe Sealants and adhesives for concrete works. [5]
- What is ready mix concrete? [5]
 - Discuss on the classification and uses of ready mix concrete. [5]
- Describe the various factors which control the creep and shrinkage behavior of concrete. [5]
 - Describe the method of preparation of light weight concrete. [5]
- What do you mean by fiber reinforced concrete? [5]
 - Describe various mechanical and physical properties of fiber reinforced concrete? [5]
- Write short notes on [5]
 - Creep and shrinkage of concrete [5]
 - Ferro cement [5]