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Total Number of Pages : 01

M.TECH

AR-19

M.TECH 1ST SEMESTER EXAMINATIONS NOV/DEC 2019
Construction Technology & Management, MPCCT1010
ADVANCED CONCRETE TECHNOLOGY

Time: 3 Hours

Max Marks : 70

The figures in the right hand margin indicate marks.

PART-A

(10 X 2=20 MARKS)

1. Answer the following questions.

- What is the function of gypsum in the manufacture of cement?
- Describe bulking of sand?
- Define the term compacting factor.
- What are the tests are used the measurement of workability?
- Illustrate the methods used for curing?
- Sketch the advantages of Design mix?
- What are various methods of proportioning?
- Explain pumice?
- Summarize the advantages of fibre reinforced concrete.
- Write about hot weather concreting.

PART-B

(5 X 10=50 MARKS)

Answer any five questions from the following.

- Explain in details the different tests employed for cement to ascertain its quality.
 - What is soundness of cement and how is it tested?
- Explain with the help of a neat sketch, the wet process of manufacture of ordinary cement.
 - Explain about Uniform grading and gap grading.
- What are the various factors which affecting the workability of concrete? Explain.
 - What is re-vibration? Is it detrimental to concrete?
- Discuss about flow test for concrete.
 - Tell in detail about the practical significance of stress-strain curve for Concrete.
- Write short notes on shrinkage and creep.
 - Explain about fatigue behavior of concrete.
- Discuss the various methods of proportioning.
 - Describe in detail about the procedure for IS method of mix design
- Explain detailed about Light weight concrete and its types.
 - Explain the Sulphur infiltrated concrete in detail.

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