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Total No. of Questions:8]

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Roll No

MVCT/MBCT/MVCP-102

M.E./M.Tech., I Semester

Examination, December 2016

Construction Material

Time: Three Hours

Maximum Marks: 70

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Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- Discuss in detail about the PSC and PPC. Also list the Portland and Non-Portland cements generally used in construction.
 - Discuss in detail about Micro Structure of hydrated cement.
- What do you mean by corrosion of concrete? Discuss in detail the various factors responsible for the corrosion of concrete.
 - What do you mean by creep of concrete Describe the role of aggregate in creep of concrete?
- What are superplasticizers? State the advantages and disadvantages of superplasticizers.
 - What is meant by structural lightweight concrete? How is it classified?
- Explain what is meant by polymer concrete.
 - Discuss in detail about industrial wastes used in the concrete construction.

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- What is meant by Non-Destructive Testing of materials? What are the uses of the ultrasonic pulse velocity test?
 - Explain the rebound-hammer non-destructive test to assess the compressive strength of concrete.

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- What do you mean by shrinkage of concrete? Discuss the 6. a) various factors affecting the shrinkage of concrete.
 - How can drying shrinkage cracking be reduced?
- What do you mean by quality control of concrete? Discuss 7. a) the factors causing variations in the quality of concrete.
 - Discuss the characteristics of good aggregates. What are the deleterious substances in aggregates?
- Write short notes on following:
 - Fire resistance of Concrete
 - Additives
 - Ready mixed Concrete
 - Destructive Testing of Materials
