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Total No. of Questions: 8]

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Roll No

MVSE-203 M.E./M.Tech., II Semester

Examination, December 2016

Advance Concrete Technology

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- Explain hydrated structure of cement with neat sketch.7
 - Explain the quality control of concrete.
- Explain the rheological behaviour of concrete. What are the factors affecting the rheological behaviour of concrete? Explain any three tests to determine the workability of concrete.
- What are the objective of curing of concrete? Explain different methods of curing of concrete.
 - Explain briefly ready mix concrete and its properties. 7
- 4. Discuss special features of cold weather concreting and hot weather concreting, when and where it is required? Discuss the concreting procedure in both cases with example.
- Explain various factors affecting shrinkage of concrete.
 - Discuss factors influencing permeability of concrete. 7

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What are the properties of high density concrete? Explain the method of production and application of high density concrete.

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What is Mix-design? Explain in detail various factors governing the selection of mix proportion.

Write short notes on:

 $4 \times 3\frac{1}{2} = 14$

- Non-Destructive Testing
- Efflorescence in concrete
- Creep of concrete
- Light weight concrete

PTO

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