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- Write a detailed note on permeability and durability of concrete.
- 5. Write a brief description on the following
  - a) Ready mixed concrete
  - b) Self compacting concrete
  - c) High performance concrete
  - d) Light weight concrete
- Explain Mix Design of M-25 grade of concrete by IS recommended guidelines in detail.
- 7. Describe in detail
  - a) Cold weather concreting
  - b) Hot weather concreting
- What do you understand by Non Destructive Testing? Enlist various methods of NDT of concrete. Describe testing of concrete by Schmitt's Rebound Hammer.

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Total No. of Questions :8]

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## MVSE - 203

## M.E./M.Tech., II Semester

Examination, June 2014

## Advance Concrete Technology

Time: Three Hours

Maximum Marks: 70

Note: Attempt any five questions.

All questions carry equal marks.

- What are various types of cement? Explain in detail. Mention their properties and uses.
- 2. Write brief notes on the following-
  - a) Workability of concrete and its measurement in the laboratory.
  - Bleeding of concrete. Effect of bleeding and prevention of bleeding.
  - c) Compaction of concrete
  - d) Care to be taken while transporting and placing of concrete.
- 3. Discuss the following:
  - a) Shrinkage of concrete and its different types.
  - Relationship between compressive strength and tensile strength of concrete.
  - c) Creep of concrete
  - d) Effect of maximum size of aggregate on the strength of concrete.

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