

Roll No

MVSE - 203

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

Examination, June 2016

Advance Concrete Technology

Time : Three Hours

Maximum Marks : 70

- Note :** i) Attempt any five questions.
ii) Each question carry equal marks.
iii) Assume missing data suitably.

1. Define Concrete Name the different ingredients of concrete. Discuss the functions and specifications of each ingredients. What factors control the proportion of concrete mix?
2. What is the effect of water cement ratio on strength of concrete? What is Abram's law? What are its limitations?
3. Explain following properties of hardened concrete in detail.
 - a) Shrinkage and temperature
 - b) Durability and its measurement
4. Discuss the properties of special concretes.
5. Describe ferro cement and fiber reinforced concrete.
6. How does the strength of concrete vary with age? What is modulus of rupture? How can the modulus and rupture of concrete be determined?

7. What for the Non-Destructive Testing (NDT) of concrete is required? State the various methods of NDT and explain any two of them in detail.
8. Write short notes on any four of the following:
 - a) Effect of temperature on curing of concrete
 - b) Effect of temperature on strength and permeability of concrete <http://www.rgpvonline.com>
 - c) High performance concrete
 - d) Air entrained concrete
 - e) Methods of concrete mix design
