	. 1	
	/	
L		л

Roll No

MVCT/MBCT/MVCP-102

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

Examination, December 2014

Construction Materials

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- iii) Assume suitable data, if found missing.
- 1. a) What do you mean by standardisation of materials? Discuss necessity, advantages and of codification.
 - b) Enumerate various construction materials. How will you analysed these materials at micro-structure level?
- 2. a) Discuss thermal and chemical effect on materials.
 - b) Discuss importance of fresh and hardened properties of concrete in detail.
- 3. a) What do you understand by admixtures and additives? Discuss their role in design and production of concrete.
 - b) What are different types of fibers used in Fiber Reinforced Concrete? Discuss all type along with their advantages.
- 4. How industrial and agriculture waste can be used to make building materials? Enumerate such type building materials. Discuss application of these materials in detail.

- 5. a) Discuss various aspect and principle of statistical quality control of concrete.
 - b) Write a note on Indian standard procedure of testing of concrete.
- 6. Distinguish between the following:
 - a) Ferro cement and Ferro concrete
 - b) Destructive and non destructive testing of materials.
- 7. Write a detailed note on the following:
 - a) Composite materials and their application
 - b) Corrosion, oxidation and Radiation of materials
- 8. Write notes on the following:
 - a) Light weight and heavy weight concrete.
 - b) Polymer concrete.
 - c) Material classification.
 - d) Shrinkage and creep of concrete.
