

Roll No

MBCT-301(A)
M.E./M.Tech., III Semester
Examination, June 2016
Concrete Technology
Time : Three Hours

Maximum Marks: 70

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

1. a) Discuss elementary mineralogy and petrology.
b) Discuss the methods of sampling for different ingredients of concrete.
2. a) What is the function of admixture in concrete? What are the effects of admixture on properties of concretes?
b) Discuss the rheology of concrete in detail.
3. What is the difference between "Workability" and "Consistency"? Explain the method of determination.
4. Discuss following properties of hardened concrete in detail.
 - a) Elasticity
 - b) Creep
 - c) Shrinkage
 - d) Durability

5. What are the different methods of proportioning concrete? Why is the trial method of proportioning so widely used when several other methods are available? Discuss the method.
6. a) What is no-fines concrete? Discuss the self compacting concrete.
b) Describe high performance and high volume fly ash concrete.
7. a) Explain various new materials to enhance durability of special concretes.
b) Discuss compaction of concrete. Discuss various equipments used for compaction of concrete.
8. Write short notes on any four of the following:
 - a) Blended cements
 - b) Exothermic characteristics of concrete
 - c) Blending of aggregates
 - d) Radiation shielding concrete
 - e) Hot weather concreting
