

CE-225**B.E. IV Semester**

Examination, June 2017

Choice Based Credit System (CBCS)**Concrete Technology****Time : Three Hours****Maximum Marks: 60**

- Note:** i) Attempt any five questions.
 ii) All questions carry equal marks.
 iii) Assume suitable data if not provided.

1. a) What do you understand by grade of concrete? Discuss with example.
 b) Enumerate properties of fresh and hardened concrete.
2. a) What is admixture? Explain the uses of any four admixtures.
 b) Explain in detail the thermal properties of concrete.
3. a) Differentiate between mix design and nominal mix design of concrete.
 b) Write short note on: www.rgpvonline.com
 - i) Micro-cracking of concrete
 - ii) Factors affecting workability

4. What are various methods of concrete mix design? Describe any one of them in detail.
5. a) Discuss various factors influencing the choice of mix design.
 b) Describe statistical quality control of concrete.
6. a) Describe the various techniques used for concreting under water.
 b) Explain ready mix concrete. State the method of its production.
7. What do you understand by non-destructive test of concrete? Explain any two methods of NDT.
8. Write short notes on (any four):
 - a) Light weight concrete
 - b) Shotcrete
 - c) Computer Aided design of concrete mix
 - d) Rheology of concrete
 - e) Polymer concrete
 - f) Inspection and testing of concrete.
