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Roll No

CE-402 (GS)

B.E. IV Semester

Examination, November 2019

Grading System (GS)

Concrete Technology

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- 1. What is meant by ordinary Portland cement 53 grade? What are the chemical composition of Portland cement?
- State the principal requirements of good aggregate. Explain the significance of grading of a combined aggregate.
- Write detailed note on the following:
 - Binary cement

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- Air-entraining cement
- State the order in which the cement compounds are formed after calcination. Explain the properties of these compounds.
- What are the methods available for measuring air content of fresh concrete? Explain one of the methods in detail.
- Write a detail note on:
 - Acceptance criteria for concrete
 - Design of plastic concrete mix

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Write short notes on any four:

- i) Light weight concrete
- ii) Polymer concrete
- iii) Sulphur infiltrated concrete iv) Fibre reinforced concrete
- v) High density concrete
- Discuss steps involved in mix proportioning and explain trial and adjustment method of mix design.

OR

What is non-distractive testing of concrete? Discuss any one non-distractive testing method of concrete.
