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Roll No

CE-4002-CBGS

B.E. IV Semester

Examination, December 2020

Choice Based Grading System (CBGS)

Concrete Technology

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

iii) Draw neat and clear figures.

1. a) What is the influence of the tri and di-calcium silicates and tri-calcium aluminate on the properties of concrete. 7
b) Explain the importance of plasticizers and fly ash as admixtures in concrete. 7
2. a) What are the different tests conducted to determine the workability of concrete? Explain any one of them. 7
b) Write down the thermal properties and micro-cracking of concrete. 7
3. a) Explain the concept of “Mix Design” Pertaining to concrete. 7
b) Explain computer aided design of concrete mix. 7
4. a) Explain the method of concreting underwater. 7
b) What is curing? How it is done? How does it influence the strength of concrete. 7

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5. a) What is Ferrocement concrete? Write down the advantages and disadvantages of Ferrocement concrete. 7
b) Briefly explain the properties of 'Fiber Reinforced concrete' State the practical application of the same. 7
6. a) What are the products of Hydration of cement with all necessary equations? 7
b) Differentiate between wet and dry process with the help of Flow chart. 7
7. a) What do you mean by soundness of Aggregates? Explain. 7
b) What is sulphate attack? Suggest the remedial measures to control it. 7
8. a) Explain in detail repair technology for concrete structures. 7
b) Write down about 7
 - i) Resin concrete.
 - ii) Prestressed concrete.
 - iii) Vaccum concrete.
