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Enroll No.....

CE-101

M.Tech.(CTM)–I Sem. (Reg./Ex.)

Examination, March.-2021

Construction Materials

Time: Three Hours

Maximum Marks : 70

Note: Attempt any five questions. (Each question carries equal marks)

Q.5 Write a short notes on the following

- (a) Fire resistance of concrete.
- (b) Polymer concrete
- (c) Ready mix concrete
- (d) Light weight concrete.

Q.6 Discuss the following-

- (a) Composite material and their application.
- (b) Corrosion oxidation and radiation of material.

Q.7 (a) What do you mean by standardization of material.

- (b) Discuss how the standard deviation and the coefficient of variation are useful in design and quality control of the concrete.

Q.8 (a) Discuss the important of fresh and hardened property of concrete in detail

- (b) Briefly describe the properties and use of following materials.

- (a) Heating Solution Materials
- (b) Soundproofing Materials

Q.1 (a) Discuss thermal and chemical effect of material.

- (b) What do you mean by standardization of materials? Discuss necessity advantages and codification.

Q.2 How industrial and agricultural waste can be used to make building material. discuss in detail.

Q.3 (a) Discuss the various aspect and principle statistical quality control of concrete

- (b) What do you understand by admixtures and activities? Discuss their role in design and production of concrete.

Q.4 (a) Write a note Indian standard procedure of testing of concrete.

- (b) List the different NDT method commonly used along with their capabilities for detection of different types of effects.
