

I B. Tech II Semester Regular Examinations, September- 2021
BUILDING MATERIALS AND CONCRETE TECHNOLOGY
(Only for CE)

Time: 3 hours

Max. Marks: 70

Answer any five Questions one Question from Each Unit
All Questions Carry Equal Marks

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**UNIT-I**

1. a) Write about dressing of stone. (7M)
  - b) Discuss the characteristics of a good tile. (7M)
- Or
2. a) What are the qualities of good bricks? (7M)
  - b) List the qualities of good building stones? Discuss them. (7M)

**UNIT-II**

3. a) What is fineness of cement? How it is determined in laboratory? (7M)
  - b) Describe the chemical composition of cement. (7M)
- Or
4. a) Explain process of Hydration of cement. (7M)
  - b) What is aggregate abrasion value? Explain its significance. (7M)

**UNIT-III**

5. a) State workability of concrete. (7M)
  - b) Explain the effect of time and temperature on workability. (7M)
- Or
6. a) Write about the quality of mixing water in concrete. (7M)
  - b) Discuss about the significance of Ready mix concrete. (7M)

**UNIT-IV**

7. a) Explain different moduli of elasticity of concrete and explain their practical significance. (7M)
  - b) Discuss relation between Modulus of elasticity and strength. (7M)
- Or
8. a) Write about Maturity concept of concrete. (7M)
  - b) Explain how strength of concrete is estimated by w/c ratio law. (7M)

**UNIT-V**

9. a) State when you go for Non-destructive test. (7M)
  - b) Explain the importance of NDT to test the quality of concrete. (7M)
- Or
- 10 Describe with neat diagram non-destructive evaluation of concrete using rebound hammer. (14M)

