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Total No. of Pages : 01

Total No. of Questions : 08

M.Tech. (Structural Design) (2016 & onwards) (Sem.-2)

CONSTRUCTION FAILURES

Subject Code : MSTD-206

M.Code : 74298

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWENTY marks.

- Q1. Define and describe the meaning of construction failures.
- Q2. Using a historical construction failure as a case study, explain the importance of forensic study of structural failure and the various lessons learned.
- Q3. Classify and describe the different causes of construction failures.
- Q4. Explain the effects of natural hazards on construction failures.
- Q5. Describe the factors affecting durability of reinforced concrete. What are the codal provisions for design of durable concrete structures?
- Q6. Explain major visual indications of distress in structures and their reasons in case brick work and RCC.
- Q7. Sketch and classify the cracks as a visual indication distress in structures. Explain the measures to reduce or avoid such cracks.
- Q8. Explain with the help of a diagnostic chart the steps involved in diagnosing the problem affecting a structure which may lead to failure.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.