Roll No.

Total No. of Pages: 01

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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.
- 1. Define Construction Failures. What can be the causes of failure? Can we remove these causes? Give your views.
- 2. a) Inadequate supervision and inspection cause construction failure. How?
  - b) Write a short note on the "Measures of construction failures".
- 3. What are the provisions for design of durable concrete structures according to Indian standard code? Explain in detail.
- 4. What are the Indian standard guidelines to reduce cracks in concrete and masonry structures?
- 5. Explain the measures to reduce frequency of construction failures.
- 6. Illustrate "poor workmanship and improper materials are the main causes of construction failures".
- 7. Explain the following terms:
  - a) Measure to avoid cracks in masonry structures.
  - b) Subsidence of flood.
- 8. Is it possible to make any structure earthquake resistant? If yes, then write the stepwise procedure to make any structure, earthquake resistant. Write Indian-standard provisions-for earthquake resistant structures.

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

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