

23424

M.Tech 2nd Semester Civil Engineering

(Specialization in Structural Design)

Examination, May-2017

REPAIR & REHABILITATION

Paper-MTSD-204

Time allowed : 3 hours]

[Maximum marks : 100

Note : Attempt any five questions. Assume any data if missing.

1. Explain how observation and condition survey helps in calculating the distresses of the structure. Describe each, explaining what type of distress is witnessed due to each cause. 20
2. How will you assess the effectiveness of repair or rehabilitation executed ? Explain in detail. 20
3. What are the different methods for repairing structural components at the element level, explain all in detail. 20
4. Write down and explain in detail, the unique features which demand specific attention while repair and rehabilitation, explain with examples. 20

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5. Describe in detail the damage assessment procedure for the repair and rehabilitation of structures. 20
6. Explain in detail the difference between pre-repair evaluation and post-repair evaluation. 20
7. Write a short note on the repair of following components : 20
 - (a) Column Strengthening
 - (b) Strengthening and stiffening of slab
 - (c) Crack stabilization
 - (d) Member Replacement
8. What is meant by blanketing ? Describe difference types of blanketing. Also explain different types of overlays used in repair work. 20