

Code No: I8707/R16

M. Tech. I Semester Regular/Supple Examinations, Jan/Feb-2018

REPAIR AND REHABILITATION OF STRUCTURES

Common to Structural Engineering (87) and Structural Design (85)

Time: 3 Hours

Max. Marks: 60

Answer any FIVE Questions
All Questions Carry Equal Marks

1. Explain about
 - i) Depth of carbonation
 - ii) Impact echo methods
2. Explain about the strengthening techniques for Beams and Columns, with neat sketch
3.
 - a Explain different methods of bond installation techniques
 - b Explain clearly the rebound hammer test its limitations
4. Classify different types of Fly ash with properties and reaction mechanism
5.
 - a Explain about FRC and the properties Applications of FRC
 - b Write the Properties of flyash concrete
6. Explain about Ultrasound pulse velocity methods with neat sketches
7. Explain the step by step procedure to be followed to assess damage structure and to carry out rehabilitation work
8. Explain the development of high performance concretes and materials of high performance concretes
