

Code No: I8707/R16

M. Tech. I Semester Regular Examinations, January-2017

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. a Explain the different materials used for repairing of a structure?
b Explain about different mineral admixtures used in mixing concrete?
2. a Explain about Beam shear Strengthening?
b Explain about Shear transfer Strengthening between Members?
3. Explain about
a) Bonded installation techniques
b) fundamental debonding mechanisms
4. Explain about No fines concrete? Write the applications of No fines concrete?
Explain the advantages of No fines concrete?
5. a Explain about the different Materials used in high performance concretes?
b Explain the applications of SCC?
6. a Explain about Corrosion activity measurement?
b Explain about Ultrasound pulse velocity method with neat sketch
7. Explain about
a) plate end debonding
b) Intermediate crack debonding with neat sketches?
8. a Write the Properties of high performance concretes?
b Explain the Development of high performance concretes?
