

Code No: G8707/R13

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

REPAIR AND REHABILITATION OF STRUCTURES

(Common to SE and SD)

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.
