

II SEMESTER M.TECH DEGREE EXAMINATION

Model Questions- 1

BRANCH: STRUCTURAL ENGINEERING

CSE 2002 FORENSIC ENGINEERING

Time: 3 hr

Mark: 60

Answer any two questions from each module

MODULE 1

1. Explain the following terms
 - a. Creep
 - b. Honey combing
 - c. Cracking in Concrete
 - d. Carbonation in Concrete
2. With suitable figures explain the different causes of distress in structures
3. Describe the various construction errors in structures

MODULE 2

1. Explain the procedure for diagnosis and assessment of deterioration in structures with suitable flowcharts
2. Explain Rebound Hammer Method mentioning its advantages and disadvantages
3. Explain the following crack detection techniques
 - a. Eddy Current method
 - b. Pulse attenuation method

MODULE 3

1. What do you mean by spalling ? Explain any 3 different methods of repairing spalling and disintegration
2. Explain any three corrosion protection techniques in detail
3. Explain the process of strengthening by prestressing with its applications