

## **II SEMESTER M.TECH DEGREE EXAMINATION**

### **Model Questions- 2**

**BRANCH: STRUCTURAL ENGINEERING**

**CSE 2002 FORENSIC ENGINEERING**

**Time: 3 hr**

**Mark: 60**

**Answer any two questions from each module**

#### **MODULE 1**

1. Explain the various environmental problems in structures and methods to prevent them
2. What is shrinkage ? Describe its types and preventive measures
3. What are design errors ? Explain the various design errors in structures

#### **MODULE 2**

1. Explain the visual inspection method of Non destructive testing of concrete
2. Explain the diagnosis and assessment of deterioration of structures by Ultrasonic Pulse Velocity method
3. Explain Windsor Probe test

#### **MODULE 3**

1. Define the following terms
  - a. Drypack
  - b. Guniting
  - c. Spalling
  - d. Autogenous Healing
  - e. Sprayed Concrete
2. Explain any four methods of repair of cracks in structures with suitable figures
3. With Chemical equations explain the mechanism of corrosion