

Reg. No: 

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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**

(AUTONOMOUS)

**M.Tech I Year I Semester Regular Examinations July-2021****STRUCTURAL HEALTH MONITORING**

(Structural Engineering)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

**UNIT-I**

1 Explain various factors to be considered repair of concrete structures. L1 12M

**OR**

2 Explain importance of maintenance various aspects of Inspection. L1 12M

**UNIT-II**

3 Explain various measures of structural health monitoring. L2 12M

**OR**

4 Explain the concept of structural safety in alteration. L1 12M

**UNIT-III**

5 List out various advantages and disadvantages of types of static tests in static field testing. L1 12M

**OR**

6 Explain various loading methods for static tests. L2 12M

**UNIT-IV**

7 Explain various dynamic loading allowances test. L1 12M

**OR**

8 Describe the procedure of forced vibration method. L2 12M

**UNIT-V**

9 Explain in detail any structure case study on structural health monitoring. L2 12M

**OR**

10 Explain the importance of electromagnetic independence technique in structural health monitoring. L2 12M

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