

Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
M.Tech I Year I Semester Regular & Supplementary Examinations May/June-2022
STRUCTURAL HEALTH MONITORING
(Structural Engineering)

Time: 3 hours

Max. Marks: 60

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

UNIT-I

1 Brief our scope of maintenance and list out various facts of maintenance. **L2 12M**

OR

2 Explain various causes that necessitate the maintenance of a structure. **L1 12M**

UNIT-II

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

OR

4 Explain in detail assessment of a health of a structure by NDT's equipment. **L1 12M**

UNIT-III

5 Describe the procedure of behavioral test and its importance. **L1 12M**

OR

6 Explain the procedure of proof test and its importance. **L1 12M**

UNIT-IV

7 Explain the procedure of ambient vibration and its importance. **L1 12M**

OR

8 Explain stress history data of dynamic field testing. **L2 12M**

UNIT-V

9 List out various materials used in structural health monitoring. **L1 12M**

OR

10 Explain various types of piezoelectric materials. **L2 12M**

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