



NPTEL ONLINE COURSE

STRUCTURAL HEALTH MONITORING

TUTORIAL 7

Answer all the questions (Total marks: 20)

<u>PART -A (5X1=5)</u>

1. In very early stage of monitoring, sensors are used.
2. The period of monitoring during reconstruction is
3. Fibre optic sensors use to read and measure data.
4. Magnetostrictive sensors emit ultrasonic energy with very high strength. State True or Fals
5. MEM sensors are manufactured usingtechnology. PART -B (5X3=15)
1. List the structures which requires monitoring during construction stage.
2. How FOS can be used in the measurement of moisture ingression?
3 What is magnetostrictive effect?

4. Mention the advantages of smart sensors.

5. Why SHM is mandatory for offshore structures?