



NPTEL ONLINE COURSE
STRUCTURAL HEALTH MONITORING

TUTORIAL 11

Answer all the questions (Total marks: 20)

PART -A (5X1=5)

1. In wireless sensor networking, power consumption can be reduced by decreasing the _____.
2. _____ can enhance the communication efficiency, because they can handle _____.
3. _____ generates the reliable report when the acquired data exceeds the present threshold value.
4. The tethers in tension Leg Platforms are slack moored. State True or False.
5. _____ power mode is used to reduce the power consumption in SHM processing unit.

PART -B (5X3=15)

1. How sampling rate is chosen in SHM?
2. What are the different power modes in processing unit of SHM?
3. What are the alternate sources of power supply for wireless sensors in real time monitoring?
4. What are the advantages of using SHM designed with IEEE 802.11 protocol at an operating frequency of 2.4 GHz?
5. Explain WSN architecture with neat sketch.