



NPTEL ONLINE COURSE
STRUCTURAL HEALTH MONITORING

TUTORIAL 9

Answer all the questions (Total marks: 20)

PART -A (5X1=5)

1. One of the major challenges in SHM design of offshore platforms is the _____ of the sensors.
2. BLSRP is _____ in vertical plane and _____ in horizontal plane.
3. What is the primary objective of the SHM design?
4. _____ are used to assess the errors in the collected data.
5. ANN combined with pre-processing tools such as _____ can be used for damage detection

PART -B (5X3=15)

1. Why visual inspection is not possible in offshore structures?
2. What are the components of SHM system?
3. List some of the issues related to vibration based damage detection.
4. List the design parameters to be considered in the wireless communication channels.
5. What are the advantages of GFRP?