TUTORIAL 3

Answer all the questions (Total marks: 20)

PART –A (5X1=5)

1. _____ is the change in health conditions of a structural system in terms of its deterioration in performance (functional).

2. Sampling interval in triggered monitoring depends on _____ of the examined phenomenon.

3. _____ monitoring is carried out with a higher sampling rate.

4. Damage identification can be done through _____ redistribution.

5. In vibration-based damage detection, modal parameters are estimated on the basis of _____.

PART –B (5X3=15)

1. Define long term monitoring and periodic monitoring.

2. What are specific conditions under which long-term monitoring is preferably carried out?

3. Discuss the hypothesis of vibration-based damage detection.

4. List the global methods deployed in damage detection.

5. List important factors that influence maintenance of infrastructure, in general.