Answer all the questions (Total marks: 20)

PART –A (5X1=5)

1. Frequency domain technique is used to analyse _____, which is localized in _____.

2. _____ is one of the best tools to identify the frequency component present in the signal.

3. What is the major defect in FFT?

4. _____ is the multi-variate statistical model that can reduce the effect of environmental factors on the sensor performance.

5. Distributed health monitoring system is used in _____.

PART –B (5X3=15)

1. How postulated failure cases are introduced in TLP experimental study?

2. Explain feature extraction process.

3. What are the tools used to analyse the data in frequency domain?

4. What are the drawbacks of visual inspection?

5. What are the recent advancements in SHM technologies?