**TQ5**

**Indicate if the statement is true or false. If a statement is false, indicate the correct answer**.

1. **In vibration analysis, we often assume that an accelerometer signal is stationary. A**

**stationary signal has the property that the statistical properties of the signal do not change with time.**

1. **The error due to under-sampling a continuous signal can be avoided by simply**

**amplifying the signal.**

1. **The discrete Fourier transform (DFT) of a signal is periodic with period being a**

**function of signal sampling frequency.**

1. **Proximity or displacement sensors are commonly used to measure the movement of the shaft in a ball bearing.**
2. **Magnetic mounting is the best approach for mounting accelerometers on to bearing**