



## SECTION-B

- Q.2 Elaborate in detail the specifications and measurement of surface roughness by Talysurf technique.
- Q.3 Explain the working of a Linear Variable Differential Transformer for measurement of displacement.
- Q.4 Differentiate between primary, secondary and working standards of measurement.
- Q.5 What are zero, first and second order systems and their response to step, ramp and sinusoidal input signals?
- Q.6 Explain along with the constructional details the measurement of temperature with metal resistance thermometer and thermistors.

## SECTION-C

- Q.7 Explain the construction, working and applications of a rope brake absorption dynamometer with the help of a neat sketch.
- Q.8 Elaborate in detail the construction and working of a hot wire anemometer and McLeod gauge.
- Q.9 Write short notes on the following :
- Interferometry
  - Proving Ring