



- Q.5 What is the unit of length.  
 a) Meter                      b) Kilogram  
 c) Kelvin                      d) None of these
- Q.6 During vibrations, speed of motion is \_\_\_\_\_.  
 a) Constant                      b) Variable  
 c) Both a & b                      d) None of these
- Q.7 The Accelerometer measures \_\_\_\_\_.  
 a) Mass                      b) Acceleration  
 c) Velocity                      d) Distance
- Q.8 Photo conductive transducer produces output \_\_\_\_\_.  
 a) Due to change in inductance  
 b) Due to change in light  
 c) Due to change in Resistance  
 d) Due to change in Temperature
- Q.9 Vibrations are \_\_\_\_\_.  
 a) Desirable                      b) undesirable  
 c) Both a & b                      d) None of these
- Q.10 \_\_\_\_\_ is the unit of capacitance.  
 a) Farad                      b) Henry  
 c) Hertz                      d) None of these

### SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Expand RVDT.

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- Q.12 LEDs are small in size. (True/False)
- Q.13 Vibrations are measured by \_\_\_\_\_.  
 Q.14 T-network employs Null Technique. (True/False)
- Q.15 Photometry refers to measurement of light.  
 (True/False)
- Q.16 Define Transducer.
- Q.17 Expand LED.
- Q.18 Resonance methods are used for measurement of capacitance. (True/False)
- Q.19 Radiometric Filtering is used for \_\_\_\_\_.  
 Q.20 Direct Measurement are commonly used in engineering applications. (True/False)

### SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Discuss methods of correction for interfering and modifying inputs.
- Q.22 Explain LVDT Accelerometer.
- Q.23 Describe measurement of Capacitance for a Resonance circuit.
- Q.24 Write a short note on Photo Diode.
- Q.25 Explain Ultrasonic Thickness measurement technique.

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