



Q.5 Which of the following metal is preferred for manufacturing micro electrodes?

- a) Rubber                      b) Tungsten
- c) Plastic                     d) Copper

Q.6 LVDT has

- a) one primary coil and two secondary coils
- b) two primary coil and one secondary coil
- c) one primary coil and one secondary coil
- d) two primary coil and two secondary coils

Q.7 \_\_\_\_\_ are devices which convert one form of energy into another.

- a) opamp                      b) electrodes
- c) impulses                  d) transducers

Q.8 Which of the following is considered to be the primary pacemaker of the heart?

- a) purkinje fibres
- b) atrio-ventricular node
- c) sino-atrial node
- d) bundle of his

Q.9 \_\_\_\_\_ converts mechanical displacement into electric signal.

- a) LVDT                      b) Thermometer
- c) Anemometer              d) Strain Gauge

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Q.10 What is the International System of Length used to measure displacement

- a) Meter                      b) Kilo meter
- c) Centimeter              d) Yards

### SECTION-B

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

Q.11 Write the definition of measurand.

Q.12 Define Sensor.

Q.13 Write one component of basic recording system.

Q.14 Define analog signal.

Q.15 Write one advantage of instrumentation amplifier.

Q.16 Write one property of biomaterial.

Q.17 Define electrode.

Q.18 Expand EEG.

Q.19 Write one use of bio sensor.

Q.20 Write one use of bio materials.

### SECTION-C

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

Q.21 Enlist five uses of bio materials.

Q.22 Write a short note on the body surface electrode.

Q.23 Draw a well labelled diagram of needle electrode.

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