

# The Education Center

1

## Physics:

**1). Sound cannot travel through:**

(Marks 10)

- a). Solid
- b). Vacuum
- c). Gas
- d). Liquid

**2). The Velocity of sound in air is:**

- a). 230 m/s
- b). 480 m/s
- c). 330 m/s
- d). 380 m/s

**3). The unit of electrical resistance is:**

- a). Coulomb
- b). Ampere
- c). Volt
- d). Ohm

**4). The types of electrical circuits:**

- a). Three
- b). Four
- c). Two
- d). Six

**5). The electrical instrument which is used to measure electric current is:**

- a). Ammeter
- b). Voltmeter
- c). Thermometer
- d). Galvanometer

**6). One milli ampere:**

- a).  $1 \times 10^{-6}$  A
- b).  $1 \times 10^6$  A
- c).  $1 \times 10^3$  A
- d).  $1 \times 10^{-3}$  A

**7).The sound which is pleasant to our ears is:**

- a). Noise
- b). Musical sound
- c). Noise of traffic
- d). None of these

**8). The phenomena of electro magnetism is related to:**

- a). Newton
- b). Oersted
- c). Faraday
- d). Coulomb

**9). When a switch is open in an electrical circuit it means that:**

- a). Current is flowing in the circuit                      b). No current is flowing  
c). Low current is flowing                                      d). Very high current is flowing

**10). The loudness of sound is measured in:**

- a). Decibels    b). Hertz  
c). Meter per second    d). Kilometer

**Q.2 Define the following terms:** (Any three) (06 Marks)

- a). Voltage                                      b). Resistance                                      c). Voltmeter  
d). Resistors                                      e). Electromagnet

Q.3 Write the properties of **Series OR Parallel** combination of resistances. Also draw figure: (04 Marks)

Q.4 A current of 5 microampere is flowing through a resistance of 20 kilo ohm, find the voltage across the resistance: (02 Marks)

Q.5 Which process is used in electroplating? Give the application of electroplating. (03 Marks)