

Student Name: \_\_\_\_\_ Roll No: \_\_\_\_\_

**1.** What are the fundamental properties of insulation materials?

- A) Length and cross sectional area  
B) Low resistance and thermal heat  
C) Temperature and electrical hazards  
D) Insulation resistance and dielectric strength

**2.** What is the relation of wire diameter with current carrying capacity of conductor?

- A) Directly proportional  
B) Inversely proportional  
C) Drops more voltage across it  
D) Wire gets less heat

**3.** What is the unit of electric charge?

- A) Hertz  
B) Volts  
C) Coulomb  
D) Ampere

**4.** How the stationary electric charges are called?

- A) Kinetic charges  
B) Chemical charges  
C) Static charges  
D) Electrical charges

**5.** What is the specified Vcc voltage of 4 bit digital switch with 4 independent lines?

- A) 4.5 V to 5.5 V  
B) 5.0 V to 7.5 V  
C) 2.3 V to 3.6 V  
D) 1.5 V to 2.2 V

**6.** What is the percentage of conductivity of electric current in aluminium?

- A) 0.76  
B) 0.22  
C) 0.56  
D) 0.47

**7.** Which tool is used for the simplest method of skinning wires?

- A) Thermal wire stripper  
B) Mechanical wire stripper  
C) Manual wire stripper  
D) Electrician's knife

**8.** Which metal has very good conductivity to the electric current?

- A) Copper  
B) Aluminium  
C) Silver  
D) Gold

**9.** How the insulation coating stays without damage, even on bending the wire?

- A) Due to high current flow  
B) Due to the strength of the wire material  
C) Due to elastic property of insulation  
D) Due to wire resistance

**10.** What is stationary electric charges?

- A) Static charges  
B) Chemical charges  
C) Kinetic charges  
D) Electrical charges