



# SMART TEST SERIES

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Name:		Subject:	Physics-12
Roll # :		Unit(s):	13,
Class:	Inter Part-II	Test:	Type 1 - MCQs Test - Marks=20
Date:		Time:	

**Q.1 Four possible answers A, B, C & D to each question are given. Circle the correct one. (20x1=20)**

- If a charged body is moved against the electric field it will gain:  
(A) Elastic Potential Energy (B) Kinetic Energy (C) Gravitational Energy  
(D) Electric Potential Energy
- Magnitude of drift velocity is the order of:  
(A)  $10^{-6}m/s$  (B)  $10^6m/s$  (C)  $10^{-3}m/s$  (D)  $10^3m/s$
- The current which flows from a point at higher potential to a point at lower potential is called:  
(A) Electric Current (B) Conventional Current (C) Either of these (D) None of above
- Heat generated by a 40 W bulb in one hour is:  
(A) 140 J (B) 1440 J (C) 14400 J (D) 144000 J
- The heat produced by the passage of current through a resistor is:  
(A)  $H = I^2Rt$  (B)  $H = IR^2t$  (C)  $H = \frac{I}{Rt}$  (D)  $H = \frac{I^2}{Rt}$
- Magnetic effect of current is used in:  
(A) Toaster (B) Electric motor (C) Electric iron (D) D.C battery
- Heat generated by a 50 watt bulb in one hour is:  
(A) 36000 J (B) 48000 J (C) 18000 J (D) 180000 J
- One ohm is equal to:  
(A)  $VC^{-1}$  (B)  $CV^{-1}$  (C)  $AC^{-1}$  (D)  $VA^{-1}$
- For ohmic device the graph between V and I is:  
(A) A straight line (B) Curve (C) Hyperbola (D) Parabola
- Good conductors have conductivities of the order of:  
(A)  $10^{-7}(\Omega m)^{-1}$  (B)  $10^7(\Omega m)^{-1}$  (C)  $10^2(\Omega m)^{-1}$  (D)  $10^{-2}(\Omega m)^{-1}$
- When a wire of resistance R is cut in two equal parts its resistance becomes  $\frac{R}{2}$  what happens to resistivity:  
(A) Double (B) Same (C) Half (D) One fourth
- Resistivity at a given temperature depends upon:  
(A) Area of cross section (B) length (C) Nature of material of conductor  
(D) Both length and Area.
- Which one has negative temperature co-efficient of resistance?  
(A) Silver (B) Gold (C) Carbon (D) Steel
- Temperature coefficient of resistance( $\alpha$ ) is equal:  
(A)  $\frac{R_t+R_o}{R_o\Delta t}$  (B)  $\frac{R_o-R_t}{R_o\Delta t}$  (C)  $\frac{R_t-R_o}{R_o\Delta t}$  (D) None of these
- When a wire of length "l" and resistance R is cut into two equal parts then resistivity of each part.  
(A) Becomes half (B) Remains unchanged (C) Becomes two times (D) Becomes four times
- Heat sensitive resistors are called:  
(A) Resistors (B) Capacitor (C) Thermistors (D) Inductors
- Heat generated by a 40 watts in one hour is:  
(A) 4800 J (B) 14400 J (C) 144000 J (D) 1440 J
- Which one of the following bulbs has the least resistance?  
(A) 100 watts (B) 200 watts (C) 500 watts (D) 1000 watts
- An ideal current source shall have resistance:  
(A) Zero (B) Finite but not zero (C) Infinte (D) Depend upon requirement
- Potentiometer is used to:  
(A) Compare emf of two cells. (B) Detect internal resistance of cells. (C) Measure P.D.  
(D) All of these.