



# SMART TEST SERIES

www.notespk.com : info@notespk.com

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)**

- 1 A charged conductor has charge on its.  
(A) Inner-surface (B) outer-surface (C) middle-surface (D) surrounding space
- 2 Drift velocity of electrons is:  
(A)  $10^{-1} m/s$  (B)  $10^{-2} m/s$  (C)  $10^{-3} m/s$  (D)  $10^{-4} m/s$
- 3 Magnitude of drift velocity is the order of:  
(A)  $10^{-6} m/s$  (B)  $10^6 m/s$  (C)  $10^{-3} m/s$  (D)  $10^3 m/s$
- 4 If  $1 \times 10^7$  electrons passes through a conductor in  $1.0 \mu s$ , then the current is:  
(A) 2 A (B) 1.6 A (C)  $2.6 \times 10^{-6} A$  (D)  $1.6 \times 10^{-6} A$
- 5 By increasing the temperature of conductor, the flow rate of charges:  
(A) Increases (B) Remains Constant (C) Changes exponentially (D) Decreases
- 6 Heat generated by a 50 watt bulb in one hour is:  
(A) 36000 J (B) 48000 J (C) 18000 J (D) 180000 J
- 7 For ohmic device the graph between V and I is:  
(A) A straight line (B) Curve (C) Hyperbola (D) Parabola
- 8 The current through a resistance of  $100 \Omega$  when connecting across a source of  $220 V$  is:  
(A) 22000 A (B) 22 A (C) 2.2 A (D) 0.45 A
- 9 A wire of uniform area of cross-section A, length L and resistance R is cut into two equal parts. The resistivity of each part.  
(A) is doubled (B) remains the same (C) is halved (D) is one-fourth
- 10 The reciprocal of resistance is called:  
(A) Capacitance (B) Resistance (C) Conductance (D) Inductance
- 11 Which one has negative temperature co-efficient of resistance?  
(A) Silver (B) Gold (C) Carbon (D) Steel
- 12 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
- 13 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
- 14 Resistance tolerance for gold colour is:  
(A) 50% (B) 30% (C) 20% (D) 5%
- 15 If fourth band is missing on resistance, its tolerance is:  
(A)  $\pm 5\%$  (B)  $\pm 10\%$  (C)  $\pm 15\%$  (D)  $\pm 20\%$
- 16 A rheostat can operate as:  
(A) Amplifier (B) Potential divider (C) Oscillator (D) Transformer
- 17 Resistance tolerance of silver band is:  
(A) 10% (B) 6% (C) 7% (D) 5%
- 18 What is the resistance of a carbon resistor which has band brown black brown :  
(A) 100 Ohm (B) 100 Ohm (C) 10 Ohm (D) 1.0 Ohm
- 19 In carbon resistors, which colour band indicates the tolerance of  $\pm 10\%$  ?  
(A) White (B) Silver (C) Gold (D) Violet
- 20 The maximum power (pout) is delivered to a load resistance R, when the internal resistance of the source is:  
(A)  $r = \infty$  (B)  $r = R$  (C)  $r = 0$  (D)  $r = \frac{R}{4}$



## SMART TEST SERIES

www.notespk.com : info@notespk.com

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

### MCQs Ans Key.

Q:1 (A)	Q:2 (C)	Q:3 (C)	Q:4 (D)	Q:5 (D)	Q:6 (D)
Q:7 (A)	Q:8 (C)	Q:9 (B)	Q:10 (C)	Q:11 (C)	Q:12 (C)
Q:13 (B)	Q:14 (D)	Q:15 (D)	Q:16 (B)	Q:17 (A)	Q:18 (A)
Q:19 (B)	Q:20 (B)				