SMART TEST SERIES

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Name:		Subject:	Physics-12
Roll # :		Unit(s):	13,
Class:	Inter Part-II	Test:	Type 3 - MCQs + SQs Test - Marks=30
Date:		Time:	

Q.1 Four possible answers A, B, C & D to each question are given. Circle the correct one. (10x1=10)

1 Heat generated by a 50 watt bulb in one hour is:
(A) 36000 J (B) 48000 J (C) 18000 J (D) 180000 J

2 One ohm is equal to:
(A) VC^{-1} (B) CV^{-1} (C) AC^{-1} (D) VA^{-1}

3 Specific resistance of a material depends upon:
(A) Lenght (B) Area (C) Temperature (D) Both A & B

4 The SI unit of temperature coefficient of resistivity is:
(A) $Ohm-m$ (B) K^{-1} (C) K (D) Ohm

5 Resistivity at a given temperature depends upon:
(A) Area of cross section (B) length (C) Nature of material of conductor
(D) Both lenght and Area.

6 Temperature coefficient of resistance($\propto$) 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

7 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

8 In carbon resistors, the value of Blue colour is:
(A) 7 (B) 6 (C) 8 (D) 9

9 If fourth band is missing on resistance, its tolerance is:
(A) $\pm 5\%$ (B) $\pm 10\%$ (C) $\pm 15\%$ (D) $\pm 20\%$

10 Kirchhoff's first rule is the manifestation of the law of conservation of:
(A) Mass (B) charge (C) Energy (D) Momentum

Q.2 Write short answers of the following questions. (10x2=20)

(i) Define conventional current and solar cell.
(ii) Write name of any two effects of current.
(iii) What is the effect of current passing through a long straight wire?
(iv) Define Ohm's Law. Also define ohmic and non ohmic devices.
(v) An ordinary bulb is marked 60 watts, 200 volts. What is its resistance?
(vi) Do bends in wire affect the electrical resistance? Explain.
(vii) What is rheostat? Write its one use.
(viii) What is meant by tolerance? Find the resistance of a resistor with red, green, orange and fourth and gold respectively band.
(ix) What are thermistors? How are they made?
(x) Explain why the terminal potential difference of battery decreases when the current drawn from it is increased?