



SMART TEST SERIES

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Name:		Subject:	Physics-12
Roll # :		Unit(s):	13,
Class:	Inter Part-II	Test:	Type 2 - SQs Test - Marks=40
Date:		Time:	

SHORT QUESTIONS TEST

1- Write short answers to any 7 questions: (7x2=14)

- (i) Define Conventional Current and Electronic Current.
- (ii) Write about any two sources of current.
- (iii) How the heating effect produced when current flows through the conductor?
- (iv) Write name of any two effects of current.
- (v) Define electrolysis and basic principle of electroplating.
- (vi) What is short-circuit and open circuit mean to you?
- (vii) Define Tolerance, give an example.
- (viii) What is the resistance of a carbon resistor if its first band is red, second band is green, third band is orange and fourth band is gold?
- (ix) Is the filament resistance lower or higher in a 500W 220V light bulb than in 100W 220V bulb?
- (x) Distinguish between electromotive force (emf) and potential difference.

2- Write short answers to any 7 questions: (7x2=14)

- (i) Which charges actually flow in case of conventional current?
- (ii) Why does the drift velocity of free electrons through a conductor remains constant?(AJK)-15
- (iii) What are the difficulties in testing whether the filament of a lighted bulb obeys Ohm's Law?
- (iv) Do bends in wire affect the electrical resistance? Explain.
- (v) Define Ohm's Law. Also define ohmic and non ohmic devices.
- (vi) Give colour code of carbon resistor.
- (vii) Describe a circuit which will give a continuously varying potential
- (viii) State Kirchhoff's rules.
- (ix) State Kirchhoff's 2nd rule and write its mathematical relation.
- (x) What is Wheatstone bridge? Sketch its circuit diagram.

3- Write short answers to any 6 questions: (6x2=12)

- (i) A potential difference is applied across the ends of a copper wire. What is the effect on the drift velocity of free electrons by a) increasing the potential difference b) decreasing the length and temperature of the wire?
- (ii) Define drift velocity and also write its value at room temperature.
- (iii) Name two effects of current.
- (iv) What is the effect of current passing through a long straight wire?
- (v) Define Ohm's Law. Also define ohmic and non ohmic devices.
- (vi) What are non-ohmic devices? Give an example.
- (vii) Define temperature co-efficient of resistivity.
- (viii) What is rheostat? Write its one use.
- (ix) What is meant by an electromotive force (emf) give its unit?