

## Physics ICS Part 2 Chapter 13 Online MCQ's Test

| Sr | Questions  | Answers Choice   |
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| 1  | Potentiometer is used to.  | A. Compare emf of two cells<br>B. Detect internal resistance of cell<br>C. Measure P.D.<br>D. All of these |
| 2  | Kirchhoff's voltage rule is a way of stating conservation of.  | A. Mass<br>B. Charge<br>C. Energy<br>D. Momentum   |
| 3  | Kirchhoff's first rule is the manifestation of the law of conservation of.   | A. Mass<br>B. Charge<br>C. Energy<br>D. Momentum   |
| 4  | An ideal current source shall have resistance  | A. Zero<br>B. Finite but not zero<br>C. Infinite<br>D. Depend upon requirement                             |
| 5  | Which one of the following bulbs has the least resistance.   | A. 100 W<br>B. 200 W<br>C. 500 W<br>D. 1000 W  |
| 6  | What is the resistance of carbon resistor which has band brown black brown.  | A. 100 Ohm<br>B. 1000 Ohm<br>C. 10 Ohm<br>D. 1.0 Ohm   |
| 7  | Resistance tolerance of silver band is.  | A. 10%<br>B. 6%<br>C. 7%<br>D. 5%  |
| 8  | Heat sensitive resistors are called.   | A. resistors<br>B. Capacitor<br>C. Thermistors<br>D. Inductors   |
| 9  | A rheostat can operate as.   | A. Amplifier<br>B. Potential divider<br>C. Oscillator<br>D. Transformer                                    |
| 10 | The thermistors convert changes of temperature into.   | A. Light energy<br>B. Electric voltage<br>C. Heat<br>D. Sound  |
| 11 | Resistance tolerance for gold colour is.   | A. 50%<br>B. 30%<br>C. 20%<br>D. 5%  |
| 12 | If the resistance of 500 Ohm have fourth band of silver colour then its upper maximum resistance will be.                                      | A. 600 Ohm<br>B. 550 Ohm<br>C. 450 Ohm<br>D. 400 Ohm   |
| 13 | In carbon resistors, then value of Blue colour is.   | A. 6<br>B. 7<br>C. 8<br>D. 9   |
| 14 | Colour codes are used to calculate the.  | A. Nature of resistor<br>B. Numerical value of resistance<br>C. Potential difference<br>D. Current         |
| 15 | A certain wire has a resistance R, the resistivity of an other wire of an identical material with the first, except for twice its diameter is. | A. $\frac{1}{4} R$<br>B. 4R<br>C. 2R<br>D. Same as R   |

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16 A substance having the negative temperature coefficient of resistivity out of the following is.

- A. Carbon
  - B. Iron
  - C. Tungsten
  - D. Gold
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17 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
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