

Physics ICS Part 2 Chapter 13 Online MCQ's Test

| Sr | Questions | Answers Choice |
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| 1 | The heat produced by passage of current. | A. H=I ² Rt B. H=IR2T C. H=I/Rt D. H=I ² /Rt |
| 2 | Unit (S.I) of temperature coefficient of resistivity of a material is | A. K B. K ⁻¹ C. ^o C D. K ⁻² |
| 3 | If a charge Q flows through any cross section of the conductor in time t, the current I is | A. I=Qt B. I= Q/t C. I= Q*t D. I= Q-t |
| 4 | e.m.f is the conversion of energy into electrical energy | A. Chemical B. Solar C. Light D. None of these |
| 5 | A rheostat can be used as variable resistor as well as a | A. Potential divider B. Current divider C. Wheat stone bridge D. Power divider |
| 6 | In carbon resistors, then value of Blue colour is. | A. 6 B. 7 C. 8 D. 9 |
| 7 | Semiconductor diodes are called: | A. Ohmic B. non ohmic C. Both a & D. none of above |
| 8 | Seven resistances are connected as shown in the figures . THe equivalent resistance between A and B is: | A. 3Ω B. 4Ω C. 4.5Ω D. 5Ω |
| 9 | When a wire is stretched and its radius becomes r/2, then its resistance will be | A. 16 R B. 4 R C. 2R D. 0 |
| 10 | What is the resistance of carbon resistor which has band brown black brown. | A. 100 Ohm B. 1000 Ohm C. 10 Ohm D. 1.0 Ohm |
| 11 | A battery move a charge of 40 C around a circuit at constant rate in 20 Sec. The current will be. | A. 2 A B. 0.5 A C. 80 A D. 800 A |
| 12 | 106 electrons are moving through a wire per second the current developed is: | A. 1.6 x 10-19 A B. 1 A C. 1.6 x 10-13A D. 106 A |
| 13 | If the resistance of 500 Ohm have fourth band of silver colour then its upper maximum resistance will be. | A. 600 Ohm B. 550 Ohm C. 450 Ohm D. 400 Ohm |
| 14 | The value of maximum output power is? | A. E/4R B. E ² /4R C. E/4R ² D. Non of above |
| 15 | When a pot difference of 4 volt is applied across resistance, 10 J of energy is converted Find charge flows | A. 0.20 C B. 2.5 C C. 5.0 C D. 10.0 C |

| 16 | A wire uniform cross-section. A length L and resistance R is cut into two equal parts. The resistivity of each part will be: | A. Doubled B. Halved C. Remain the same D. One fourth |
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| 17 | Thermistor with high - ve temperature coefficient are very accurate for measuring low temperature especially near is. | A. 10 kelvin B. 70 kelvin C. 200 kelvin D. 35 kelvin |
| 18 | The thermistors convert changes of temperature into. | A. Light energy B. Electric voltage C. Heat D. Sound |
| 19 | Resistance tolerance of silver band is. | A. 10% B. 6% C. 7% D. 5% |
| 20 | The free electrons experience force. | A. In direction of -E B. In direction of E C. Both A and B D. All of the above |