

Physics ICS Part 2 Online MCQ's Test

| Sr | Questions | Answers Choice |
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| 1 | 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 |
| 2 | 1 kg mass will be equivalent to energy. | A. 9×10^{18} J B. 9×10^{12} J C. 9×10^{16} J D. 9×10^{19} J |
| 3 | The longest wavelength of Paschen series is. | A. 656 nm B. 1094 nm C. 1875 nm D. 2000 nm |
| 4 | Magnetic effect of current is used | A. To detect a current B. To measure a current C. In electric motor D. All of above |
| 5 | For a current carrying solenoid the term 'n' has unit as. | A. No unit B. m^{-1} C. m^{-2} D. m^{-3} |
| 6 | The SI unit of resistivity is. | A. Ohm m ² B. Ohm m ⁻¹ C. Ohm m D. Ohm |
| 7 | If a charged body is moved against the electric field it will gain. | A. P.E. B. K.E. C. Mechanical energy D. Electrical potential energy |
| 8 | Heat generated by a 40 W bulb in one hour is. | A. 140 J B. 1440 J C. 14400 J D. 144000 J |
| 9 | Pair production cannot take place in vacuum because : | A. Mass is not conserved B. Momentum is not conserved C. Energy is not conserved D. Charge is not conserved |
| 10 | Closeness of the electric field lines is the measure of. | A. Direction of field B. Strength of field C. Potential difference D. Uniformity of field |
| 11 | The potential difference between the top and bottom of a cloud chamber is of the order of | A. 290 v B. 400 v C. 1 kv D. None of above |
| 12 | The flow of D.C current is opposed by | A. Resistor B. Induction C. Capacitor D. All of these |
| 13 | Selenium is | A. Insulator is dark B. Insulator in light C. Conductor in dark D. Semi conductor in dark |
| 14 | μ_0 (Ampere's constant) has value. | A. $4\pi \times 10^{-7}$ WbA ⁻¹ m ⁻¹ B. $4\pi \times 10^{-17}$ Wbm ² C. $4\pi \times 10^{-7}$ WbA ⁻¹ m ⁻¹ D. $4\pi \times 10^{-27}$ Wb/m ² |
| 15 | 5 A of current flows through a conductor in 2 minutes. charge in the wire is. | A. 500 C B. 600 C C. 100 C D. 120 C |

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| | | C. 400 C D. 10 C |
| 16 | In Helium Neon laser, discharge tube is filled with Neon gas. | A. 10% B. 15% C. 85% D. 90% |
| 17 | The most refined form of matter is: | A. Smoke B. Light C. Ice D. Fog |
| 18 | A force of 0.01 N is exerted on a charge 1.2×10^{-5} C at a certain point. The electric field at that point is | A. 1.2×10^4 N/C B. 1.2×10^4 C/N C. 8.3×10^2 N/C D. 8.3×10^{-2} N/C |
| 19 | Electric potential at a distance "r" from "q" is: | A. $V = \frac{1}{4\pi\epsilon_0} \frac{q}{r^2}$ B. $V = \frac{1}{4\pi\epsilon_0} \frac{q}{r^2}$ C. $V = \frac{1}{4\pi\epsilon_0} \frac{q}{r}$ D. $V = \frac{1}{4\pi\epsilon_0} \frac{q}{r^2}$ |
| 20 | When back emf in motor is zero, it draws. | A. Zero current B. Minimum current C. Maximum current D. Steady current |