

ECAT Physics Online Test

| Sr | Questions | Answers Choice |
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| 1 | Mass of proton is | <p>A. 1.67×10^{-27} kg</p> <p>B. 1.67×10^{-31} kg</p> <p>C. 1.66×10^{-34} kg</p> <p>D. 1.67×10^{-17} kg</p> |
| 2 | An A.C. voltmeter read 250 volts. The frequency of alternating is 50 Hz, the peak value of voltage is | <p>A. 3525.0 volts</p> <p>B. 35.35 volts</p> <p>C. 353.5 volts</p> <p>D. 3.535 volts</p> |
| 3 | The value of LDR depends upon intensity of: | <p>A. Sound falling on it</p> <p>B. Current passing through it</p> <p>C. Magnetic field surrounding it</p> <p>D. Light falling on it</p> <p>E. Non of these</p> |
| 4 | An electron is accelerated through a potential difference of 50v. its de-Brogile wavelength is | <p>A. 1.66×10^{-29} m</p> <p>B. 1.74×10^{-10} cm</p> <p>C. 17.4×10^{-6} m</p> <p>D. 1.74×10^{-10} m</p> |
| 5 | If A represents linear momentum and c, the velocity of light, then unit of pc in international system of units is: | <p>A. Newton</p> <p>B. Joule</p> <p>C. Joule-Sec</p> <p>D. Joule-s⁻¹</p> <p>E. Watt</p> |
| 6 | Pressure exerted by a gas on the walls of its container is due to | <p>A. adhesion between the gas molecules and the container</p> <p>B. cohesion between the gas molecules and the container</p> <p>C. collision between the gas molecules and the container</p> <p>D. surface tension of the gas</p> |
| 7 | If the values of instantaneous and average velocities are equal, the body is said to be moving with | <p>A. uniform acceleration</p> <p>B. uniform speed</p> <p>C. variable velocity</p> <p>D. uniform velocity</p> |
| 8 | Zirconia is classified as: | <p>A. Ceramic solid</p> <p>B. Ionic compound</p> <p>C. Metal</p> <p>D. Either (A) or (B)</p> <p>E. Either (B) or (C)</p> |
| 9 | The only significant motion possessed by the mono-atomic gas represented is: | <p>A. Translatory</p> <p>B. Rotatory</p> <p>C. Vibratory</p> <p>D. None of these</p> |
| 10 | If every particle of the flow that passes a particular point, moves along the same path as followed by particles which passed the point earlier, then this flow is said to be | <p>A. turbulent</p> <p>B. streamline</p> <p>C. abrupt</p> <p>D. none of them</p> |
| 11 | The whole shape of the black body spectrum for all wavelengths was explained by the formula proposed by | <p>A. Max plank</p> <p>B. Newton</p> <p>C. Einstein</p> <p>D. J.J. Thomson</p> |
| 12 | A p-n junction is formed when a crystal of silicon is growth in such a way that its one half is doped with trivalent impurity and the other half with a impurity from | <p>A. 2nd group</p> <p>B. fourth group</p> <p>C. fifth group</p> <p>D. sixth group</p> |
| 13 | Viscosity of water is _____ that of air but ____ that of plasma. | <p>A. More, more</p> <p>B. Less, more</p> <p>C. Less, less</p> <p>D. More, less</p> |
| 14 | The collision in which KE is conserved but momentum is not conserved is called: | <p>A. Elastic collision</p> <p>B. Inelastic collision</p> <p>C. any these</p> |

D. None of these

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| 15 | The phase angle of a series RLC circuit at resonance is | A. 180° B. 90° C. 0° D. None of these |
| 16 | According to the electromagnetic wave theory of light, increasing the intensity of incident light should increase the | A. number of photoelectrons B. size of the photoelectrons C. charge on photoelectrons D. K.E of photoelectrons |
| 17 | Alternating current can induce voltage because it has a | A. High peak value B. Varying magnetic field C. Stronger field than direct current D. Constant magnetic field |
| 18 | The velocity gained by the fluid in falling through the distance ($h_1 - h_2$) under the action of gravity is equal to the speed of the action of gravity is equal to the speed of the | A. orifices B. efflux C. fluid D. none of them |
| 19 | When a platinum wire is heated, it appears dull red at about | A. 500°C B. 900°C C. 1100°C D. 1300°C |
| 20 | Polymers are the chemical combination of carbon with: | A. Nitrogen B. Oxygen C. Hydrogen D. All of these E. None of these |