

Physics ICS Part 2 Online MCQ's Test

| Sr | Questions | Answers Choice |
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| 1 | The mass spectrum of naturally occurring neon shows the most abundant isotope has atomic mass. | A. 19 B. 20 C. 21 D. 22 |
| 2 | The condition of resonance is: | A. $X_L = \frac{1}{2} X_C$ B. $X_L = X_C$ C. $X_C = 4X_L$ D. None of above |
| 3 | Power dissipation in A.C circuit is expressed as: | A. $P = I_{rms} \times V_{rms} \sin \theta$ B. $I V \cos \theta$ C. $I_{rms} \times V_{rms} \cos \theta$ D. $I_{rms} \times V_{rms} \sin \theta$ |
| 4 | Which diode works at reverse biasing. | A. LED B. Photo voltaic cell C. Photo diode D. Silicon diode |
| 5 | $e/m =$ | A. v/Br B. Br/V C. VB/r D. Vr/B |
| 6 | A soft iron cylinder is placed inside coil galvanometer to: | A. Make field circular and strong B. Make field radial and weak C. Make field radial and strong D. All of above |
| 7 | When the back emf in a current is zero, it draws | A. Zero current B. Maximum current C. Minimum current D. Steady average current |
| 8 | A current carrying conductor experience maximum magnetic force in a uniform magnetic field when it is placed. | A. Perpendicular to field B. Parallel to field C. At an angle of 60° to the field D. None of these |
| 9 | The principle regarding the dual nature of light was first discovered by | A. Heisenberg B. Compton C. J.J.Thomson D. De-Broglie |
| 10 | Which series lies in the ultraviolet region. | A. Balmer series B. Bracket series C. Pfund series D. Lyman series |
| 11 | Alpha particle carries a charge. | A. -e B. +2e C. -2e D. No charge |
| 12 | Pair production occurs only when energy of photon is at least equal in: | A. 1.02keV B. 1.02 eV C. 1.02 MeV D. 1.02 GeV |
| 13 | Unit of Stephen's constant is | A. $W m K^{-2}$ B. $W m^{-2} K^{-4}$ C. $W m K^{-4}$ D. None |
| 14 | Which of the following are not hadrons. | A. Muons B. Mesons C. Positrons D. Neutrons |

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| 15 | Electric field intensity at a point is defined by the relation. | A. $E = q/r$ B. $E = F/q$ C. $E = qF$ D. $E = F/q^2$ |
| 16 | A pair of quark and anti quark makes a. | A. Meson B. harden C. Lpton D. Baryon |
| 17 | Flux through any closed surface is: | A. $1/\epsilon^{sup}2</sup>₀$ times the total charge enclosed in it B. $\epsilon^{sup}2</sup>₀$ time the total charge enclosed in it C. $1/\epsilon^{sup}0</sup>₀$ ties the total charge enclosed in ti D. $\epsilon^{sup}0</sup>₀$ time the total charge enclosed in it |
| 18 | Photons emitted in inner shell transition are. | A. Continuous X-rays B. Discontinuous X rays C. Characteristic X rays D. Energetic X rays |
| 19 | The dead time of G.M tube is. | A. $10^{sup}-1</sup>$ sec B. $10^{sup}-6</sup>$ sec C. $10^{sup}-4</sup>$ sec D. $10^{sup}-8</sup>$ sec |
| 20 | A pentavalent impurity in Si | A. a free electron and a free hole B. a free hole C. a free electron D. No free particle |