

Physics FSC Part 2 Online MCQ's Test

Sr	Questions	Answers Choice
1	If the kinetic energy of a free electron doubles, its de Broglie wavelength changes by the factor.	<p>A. $\frac{1}{2}$</p> <p>B. $\frac{1}{\sqrt{2}}$</p> <p>C. 2</p> <p>D. $\sqrt{2}$</p>
2	If F_1 and F_2 are the magnetic forces acting on a particle and electron respectively when moving perpendicular to the magnetic field then.	<p>A. $F_1 = F_2$</p> <p>B. $F_1 > F_2$</p> <p>C. $F_1 < F_2$</p> <p>D. $F_1 = 4F_2$</p>
3	The critical temperature of Aluminum is.	<p>A. 3.72 K</p> <p>B. 1.18 K</p> <p>C. 7.2 K</p> <p>D. 8.2 K</p>
4	Which one of the following is not affected by electric or magnetic field.	<p>A. Beta rays</p> <p>B. Gamma rays</p> <p>C. Alpha rays</p> <p>D. Electron</p>
5	Two oppositely charged balls A and B attract the third ball C, when placed near them turn by turn The third ball C must be.	<p>A. Positively charged</p> <p>B. Negatively charged</p> <p>C. Electrically neutral</p> <p>D. Positively and negatively charged</p>
6	Logic gate can control some physical parameters like.	<p>A. Temperature, Pressure</p> <p>B. Resistance, Inductance</p> <p>C. Capacitance, Impedance</p> <p>D. Current, voltage</p>
7	Before and after nuclear reaction the number of protons and neutrons:	<p>A. Must be different</p> <p>B. Must be decreased</p> <p>C. Must be increased</p> <p>D. Remains same</p>
8	K α -X-rays are produced due to transition of electron from.	<p>A. K to L shell</p> <p>B. L to K shell</p> <p>C. M to K shell</p> <p>D. M to L shell</p>
9	The minimum frequency needed to emit an electron from metal surface is called:	<p>A. Work function</p> <p>B. Threshold frequency</p> <p>C. Quanta frequency</p> <p>D. All of above</p>
10	In pure capacitor A.C. circuit, the current I and charge q are.	<p>A. In phase</p> <p>B. Out of phase</p> <p>C. Parallel to each other</p> <p>D. None of above</p>
11	Hydrogen bomb is an example of.	<p>A. Nuclear fission</p> <p>B. Nuclear fusion</p> <p>C. Chain reaction</p> <p>D. Chemical reaction</p>
12	The ratio of applied stress to volumetric strain is called:	<p>A. Young modulus</p> <p>B. Shear modulus</p> <p>C. Bulk modulus</p> <p>D. Tensile modulus</p>
13	The anodes in cathode ray oscilloscope.	<p>A. Control number of waves</p> <p>B. Control brightness of spot formed</p> <p>C. Accelerate as well as focus beam</p> <p>D. Negative potential w.r.t to cathode</p>
		<p>A. Heavy loading of emitter current</p>

14	Improper biasing of a transistor circuit produces:	<p>B. Distortion in the output signal</p> <p>C. Excessive heat at collector terminal</p> <p>D. Faulty location of load line</p>
15	In photovoltaic cell, current is directly proportional to.	<p>A. Wavelength of light</p> <p>B. Intensity of light</p> <p>C. Energy</p> <p>D. Frequency of light</p>
16	The number of electrons in one coulomb charge is equal to	<p>A. 6.2×10^{18} electrons</p> <p>B. Zero electrons</p> <p>C. 1.6×10^{22} electrons</p> <p>D. 6.2×10^{21} electrons</p>
17	NIBA =	<p>A. $c\theta$</p> <p>B. θ/c</p> <p>C. c^2/θ</p> <p>D. c^2/θ</p>
18	Study of hydrogen visible spectrum in	<p>A. 1886</p> <p>B. 1887</p> <p>C. 1895</p> <p>D. 1885</p>
19	In Wilson cloud chamber, β -particles leave	<p>A. Thin and continuous tracks</p> <p>B. Thick and continuous tracks</p> <p>C. No tracks</p> <p>D. Thin and discontinuous tracks</p>
20	Magnetic induction can be measured in units of.	<p>A. Tesla</p> <p>B. Gauss</p> <p>C. Weber/m²</p> <p>D. All of the above</p>