

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Braking radiation causes:	A. Continuous spectrum B. Line Spectrum C. Band spectrum D. Discrete spectrum E. All of these
2	The direction of lines of force depends upon the direction of	A. voltage B. current C. charges D. none of these
3	Lead, copper and wrought iron are examples of	A. brittle substances B. ductile substances C. plastic substances D. elastic substances
4	If you are moving at relativistic speed between two points that are a fixed distance apart, then the distance between the two points appears	A. larger B. shorter C. equal D. none of these
5	Unit of viscosity is:	A. $\text{Kg m}^{-1}\text{sec}^{-1}$ B. N s m^{-2} C. J s m^{-3} D. All of these
6	The substances in which, atoms are so oriented that their fields support each other and the atoms behave like tiny magnets, are called	A. diamagnetic substances B. ferromagnetic substances C. paramagnetic substances D. all of them
7	Step up transformer has a transformation ratio of 3:2. What is the voltage in secondary, if voltage in primary is 30V:	A. 45 V B. 15 V C. 90 V D. 300 V
8	When two objects come to common temperature, the body is said to be in:	A. Static equilibrium B. Dynamic equilibrium C. Thermal equilibrium D. None of these
9	The electric potential at the surface of an atomic nucleus ($Z = 50$) of radius 9.0×10^{-15} is	A. $9 \times 10^5 \text{ V}$ B. 9 V C. $8 \times 10^6 \text{ V}$ D. 80 V
10	The value of resistivity is the least for:	A. Copper B. Aluminium C. Silver D. Tungsten E. Iron
11	Most practical applications of electricity involve	A. Charges at rest B. Charges in motion C. Electrons at rest D. Atoms in motion E. Molecules in motion
12	1 amu is equal to.	A. $1.66 \times 10^{-24} \text{ kg}$ B. $1.66 \times 10^{-19} \text{ kg}$ C. $1.66 \times 10^{-24} \text{ kg}$ D. $1.66 \times 10^{-27} \text{ kg}$
13	Centripetal acceleration is also called _____ acceleration:	A. Tangential B. Radial C. Angular D. None of them
14	In a semi-conductor material, current flows due to	A. positive charge B. negative charge C. both of them D. none of them

15	A body of mass 0.031 kg attached to one end of a spring of spring constant 0.3 N/m, then time period of spring mass system will be:	A. 1.5 sec B. 2.0 sec C. 2.3 sec D. 2.5 sec
16	The SI unit of capacitance is	A. Farad B. Henry C. Ohm D. Volt
17	Which of the following material has longer half life	A. radium B. polonium C. radium D. uranium
18	The space around the earth within it exerts a force of attraction on other bodies of known as:	A. Nuclear field B. Conservative field C. Electric field D. Gravitational field
19	In the formula $P = N_0 k T$, N_0 denotes:	A. Number of molecules per unit per volume B. Number of moles C. Number of molecules D. None of these
20	Which of the following is not a projectile	A. a bullet fired from a gun B. a space ship C. a football in air D. an artillery shell