

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The excess (equal in number) of electrons that must be placed on each of two small spheres spaced 3 cm apart, with force of repulsion between the spheres to be 10 ⁻¹⁹ N, is	A. 25 B. 225 C. 625 D. 1250
2	Power is a :	A. Vector quantity B. Base quantity C. Scalar quantity D. None of these
3	Electromagnetic radiation or photons interact with matter in	A. two distinct ways B. three distinct ways C. four distinct ways D. five distinct ways
4	Silicon can be obtained from	A. Lead B. Uranium C. An isotope of oxygen D. Sand
5	Cause of heat production in a current carrying conductor is	A. Collisions of free electrons with one another B. High drift speed of free electrons C. Collisions of free electrons with atoms or ions of conductor D. High resistance value
6	Which of the following is not an example of intertial frame	A. a body placed on the surface of earth B. a body placed in a car moving with uniform velocity C. a body placed in a car moving with same acceleration D. none of these
7	The motion of a body in a straight line is the motion in	A. one dimension B. two dimension C. three dimension D. four dimension
8	If work is done at the rate of 2 k j per second, then total work done is half an hour will be:	A. 0.5 Kwn B. 2 Kwh C. 1 Kwh D. None of these
9	There are some whose resistivity becomes zero below a certain temperature, called	A. absolute zero B. 0 °C C. critical temperature D. lower fixed point
10	Rate of decay is actually described by.	A. Half line B. Decay constant C. Mean life D. Total life E. None of these
11	Inertia mass and gravitational mass are	A. opposite B. identical C. identical when there is no friction D. all of them
12	Electric intensity at a place due to a charged conductor is a	A. Scalar quantity B. Vector quantity C. Semi vector and semi scalar D. Dimensionless quantity E. Both A and D are true
13	For a parallel resonant circuit at resonance, current from supply is	A. minimum B. maximum C. zero D. none of these
		A. Motion emf

14	In the equilibrium state, the potential difference between two ends of the conductor moving across a magnetic field is called:	B. Electrostatic emf C. Induced emf D. Both A and B E. Both A and C
15	Which force is not a conservative force?	A. Frictional force B. Gravitational force C. Electric force D. Elastic spring force
16	Good absorbers of heat are	A. Poor emitters B. Non emitters C. Good emitters D. Highly polarized
17	At the present time, the main frontiers of fundamental science are	A. 2 B. 3 C. 4 D. 5
18	Photons must have energy equal to	A. ev B. En C. hf D. None of these
19	A process which can be retraced in exactly reverse order, without producing any change in the surroundings is called	A. reversible process B. irreversible process C. any one of them D. none of them
20	The velocity given to a body to go out of the influence of earth's gravity is known as:	A. Terminal velocity B. Orbital velocity C. Escape velocity D. None of these