

## ECAT Pre General Science MCQ's Test For Physics Full Book

Sr	Questions	Answers Choice
1	If 2.2 kilowatt power is transmitted through 1 10 ohm line at 22000 volt, the power loss in the form of heat will be	<p>A. 0.1 watt</p> <p>B. 1 watt</p> <p>C. 10 watt</p> <p>D. 100 watt</p>
2	Sadi cannot described an ideal heat engine in	<p>A. 1820</p> <p>B. 1840</p> <p>C. 1860</p> <p>D. 1880</p>
3	Angular momentum is a:	<p>A. vector quantity</p> <p>B. Imaginary quantity</p> <p>C. Complex Quantity</p> <p>D. Scalar Quantity</p>
4	When a positron comes close to an electron they annihilate into	<p>A. one photon</p> <p>B. two photons which travel in the same direction</p> <p>C. two photons which travel in the opposite direction</p> <p>D. two photons which travel in any direction</p>
5	When the conductor moved across a magnetic field:	<p>A. Emf induced is similar to that of a battery</p> <p>B. Emf induced gives rise to induced current</p> <p>C. An emf induced across its ends</p> <p>D. All are correct</p> <p>E. None of these</p>
6	Computer chips are made from:	<p>A. Iron</p> <p>B. Silicon</p> <p>C. Helium</p> <p>D. Stontium</p> <p>E. Aluminium</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	Which one of the following is not a vector quantity?	<p>A. Kinetic energy</p> <p>B. Acceleration</p> <p>C. Momentum</p> <p>D. Force</p>

9	When angular acceleration is positive, the body rotates:	A. Slower B. Slowest C. <b>Faster</b> D. None of these
10	When the shear stress and shear strain are involved, then their ratio is called	A. <b>Young's modulus</b> B. Bulk modulus C. Shear modulus D. all of them
11	Energy is dissipated and consequently the energy mass system do not oscillate indefinitely because of	A. very small energy B. very large energy C. <b>frictional forces</b> D. acceleration due to gravity
12	Intensity of light determines the:	A. Energy of each photon B. <b>Number of photons</b> C. Speed of photons D. Size of photons E. None of these
13	When the body is moves against the force of friction on a horizontal plane, the work done by the body is:	A. Positive B. <b>Negative</b> C. Zero D. None of these
14	When the bob of simple pendulum is at mean position, its K.E will be	A. <b>maximum</b> B. minimum C. zero D. all of them
15	Unit vector is used to specify:	A. Magnitude of a vector B. Dimensions of a vector C. <b>Direction of a vector</b> D. Position of a vector
16	At 0° K which of the following properties of a gas will be zero?	A. <b>Kinetic energy</b> B. Potential energy C. Vibrational energy D. Density
17	A particle is moving in a straight line with velocity $v = (4-t^2)$ where t is the time from fixed point then acceleration of the particle after 4 sec is.	A. -8 m/sec <sup>2</sup> B. -4 m/sec C. -8 m/sec D. <b>- 4 m /sec<sup>2</sup></b>
18	A rocket carries its own fuel in the form of	A. liquid only B. liquid or solid C. liquid and solid D. <b>liquid or solid and oxygen</b>
19	Which of the following is an example of SHM(in ideal situations)	A. Motion of simple pendulum B. Motion of horizontal spring man system C. Motion of violin string D. <b>All of these</b>
20	When a transistor is used as a switch the circuit in which the current is to be switched OFF and ON, is connected between the	A. base and emitter B. <b>collector and emitter</b> C. base and collector D. any one of these