

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

Sr	Questions	Answers Choice
1	If a given spring of spring constant K is cut into two identical segments, the spring constant of each segment is:	A. K/2 B. 2 K C. 4 K D. None of these
2	The electrons in the outermost shell of an atom are called	A. core electrons B. valence electrons C. high energy electrons D. none of them
3	Newton published laws of motion in his famous book "principia" in	A. 1867 B. 1667 C. 1676 D. 1687
4	In transverse waves, the individual particles of the medium move:	A. In circles B. Perpendicular to the direction of level C. Parallel to the direction of level D. None of these
5	Centripetal acceleration is also called acceleration	A. Tangential B. Radial C. Angular D. None of these
6	Work done is independent of path followed in	A. Gravitational field B. Magnetic field C. Electric field D. All of these
7	The horizontal component of a projectile moving with initial velocity of 500 $\text{ms}^{\text{-}1}\text{at}$ an angle 60° to x-axis is	A. 500 ms ⁻¹ B. 1000 ms ⁻¹ C. 250 ms ⁻¹ D. Zero
8	A rotating body tends to be slower, when its angular acceleration is:	A. Positive B. Negative C. Zero D. Infinity
9	According to the special theory of relativity	A. mass and energy are same entities B. mass and energy are same entities but interconverible C. mass and energy are different entities but interconverible D. mass and energy are different entities but non-interconverible
10	The SI unit of current is	A. watt B. coulomb C. volt D. ampere
11	In the compton's effect, it is found that the wavelength of incident x-rays is	A. greater than the wavelength of scattered x-rays B. equal to the wavelength of scattered x-rays C. less than the wavelength of scattered x-rays D. any one of these
12	Galvanometer is a device used for the detection of	A. voltage B. current C. temperature D. pressure
13	At 'resonance' the transfer of energy from deriving source to the oscillator is	A. maximum B. minimum C. zero D. none of them
14	The waves which propagate out in the space due to oscillations of electric and magnetic	A. Mechanical waves B. Electromagnetic waves

	tields are called:	C. Matter waves D. All of them
15	The threshold frequency of sodium is 6 x 10^6MHz . The cut-off wavelength for this metal will be	A. 500 m B. 500 nm C. 500 km D. 500 cm E. None of these
16	For the working of a heat engine, there must be	A. a source of heat at high temperature B. a sink at low temperature C. both of them D. none of them
17	Which of the following does not have the same units:	A. Work B. Heat C. Kinetic energy D. Power
18	Work done by the force of friction is always	A. Positive B. Zero C. Negative D. Maximum
19	If the displacement of a body executing S.H.M is plotted against time, then the curve is known as	A. frequency of S.H.M B. period of S.H.M C. wave form D. none of them
20	The penetration power ofβ-particle is	A. zero B. less than α-particle C. equal to α-particle D. greater than α-particle