

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

Sr	Questions	Answers Choice
1	With reference of figure P-1 which of the following statements relating the average velocity for the complete path and the instantaneous velocity at point Velocity at point C is true.	<p>A. The average velocity and the instantaneous velocity of C are equal</p> <p>B. The relation depends upon the mass of the toy car</p> <p>C. The average velocity is greater than the instantaneous velocity at C equal</p> <p>D. The instantaneous velocity at C is greater than the average velocity.</p>
2	An ambulance moves around a large round-about with its sirens on . For a person standing at the center of the round about, the frequency of ambulance siren heard will be.	<p>A. Equal to the actual siren frequency</p> <p>B. Less than the actual siren frequency</p> <p>C. Greater than the actual siren frequency</p> <p>D. Changing as the ambulance moves frequency</p>
3	Particles have the mass smallest of following is:	<p>A. Electron</p> <p>B. Proton</p> <p>C. Neutron</p> <p>D. Quark</p>
4	The direction of vector in space is specified by:	<p>A. One angle</p> <p>B. Two angles</p> <p>C. Three angles</p> <p>D. None of above</p>
5	The conventional current in a circuit is defined as " current which passes from a point at higher potential to a point at lower potential as if it represent a movement of	<p>A. negative charges</p> <p>B. positive charges</p> <p>C. protons</p> <p>D. electrons</p>
6	Compton derived an expression to find Compton shift by applying to the process, the law of conservation of:	<p>A. Energy only</p> <p>B. Momentum only</p> <p>C. Mass only</p> <p>D. Charge only</p> <p>E. Both (A) and (B)</p>
7	Mass of proton is of order of	<p>A. 10^{-31} kg</p> <p>B. 10^{-27} kg</p> <p>C. 10^{-24} gm</p> <p>D. 10^{+27} kg</p>
8	Conventionally the angular velocity is directed at an angle of	<p>A. 90° to the axis of rotation</p> <p>B. 30° to the axis of rotation</p> <p>C. 0° to the axis of rotation</p> <p>D. None of the above</p>
9	The consumption source of energy is:	<p>A. Energy from biomass</p> <p>B. Hydroelectric energy</p> <p>C. Geothermal energy</p> <p>D. None of these</p>
10	At a given instant, a photon moves in +x direction in a region where there magnetic field in -z direction. The magnetic force on the proton will be the:	<p>A. -y direction</p> <p>B. +y direction</p> <p>C. +z direction</p> <p>D. -z direction</p> <p>E. None of these</p>
11	Selenium is:	<p>A. An insulator in the dark and becomes conductor when exposed to light</p> <p>B. A conductor</p> <p>C. Insulator in the dark and becomes conductor when exposed to light</p> <p>D. A conductor</p>

Conductor in the dark only

12	Fire fighters have a jet attached to the head of their water pipes in order to head of their water pipes in order to	A. Increase the mass of water flowing per second B. Avoid wastage of water C. Increase the velocity of water flowing out D. Increase the volume of water flowing per second
13	The photocopying process is called:	A. Geography B. Sonography C. Xerography D. Zerography E. None of these
14	When an oscillatory motion repeats itself, then this type of motion is called	A. vibratory motion B. constant motion C. fixed motion D. periodic motion
15	The magnitude of the force producing an acceleration of 10 m/sec^2 in a body of mass 500 grams is:	A. 3 N B. 4 N C. 5 N D. 6 N
16	Work is product of:	A. Force and velocity B. Heat and energy C. Force and displacement D. None of these
17	When a force is applied on a body, several effects are possible Which of the following effect could not occur?	A. the body rotates B. the body speeds up C. the mass of the body decreases D. the body changes its direction
18	The strength of magnetic field around the current conductor is	A. Smaller near the conductor B. Greater near the conductor C. Greater at the large distance from the conductor D. Constant near and away from the conductor
19	A pair of quark and antiquark makes a:	A. Meson B. Baryon C. Proton D. Neutron E. None of these
20	In a straight current carrying conductor, the direction of magnetic field can be found by	A. right hand rule B. left hand rule C. head to tall rule D. none of these