

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

Sr	Questions	Answers Choice
1	The characteristic of a body executing S.H.M is that its acceleration is	<p>A. inversely proportional to displacement</p> <p>B. directly proportional to displacement</p> <p>C. independent of displacement</p> <p>D. equal to zero</p>
2	Magnetic induction is also called as:	<p>A. Faraday's law</p> <p>B. Lenz's law</p> <p>C. Newton's law</p> <p>D. Coulomb's law</p>
3	The restoring force is _____ and opposite to the applied force within _____.	<p>A. Equal, elastic limit</p> <p>B. Different, the walls of the laboratory</p> <p>C. Different, elastic limit</p> <p>D. None of these</p>
4	If a material object moves with the speed of light 'C' its mass becomes	<p>A. Equal to its rest mass</p> <p>B. Four times of its rest mass</p> <p>C. Double of its rest mass</p> <p>D. Infinite</p>
5	Physics details with the study of:	<p>A. Matter</p> <p>B. Energy</p> <p>C. Both of them</p> <p>D. Human body</p>
6	If the object is placed at 12 cm distance from a convex lens of focal length 6 cm, then we get an image of _____ as that of object:	<p>A. Double the size</p> <p>B. Same size</p> <p>C. Half the size</p> <p>D. None of these</p>
7	Tesla is the unit of	<p>A. Magnetic induction or flux density</p> <p>B. Magnetic flux</p> <p>C. Self inductance</p> <p>D. None of these</p>
8	A 50 volt battery is connected across 10 ohm resistor. The current is 4.5 A. The internal resistance of the battery is	<p>A. Zero</p> <p>B. 0.5 Ω</p> <p>C. 1.1 Ω</p> <p>D. 5.0 Ω</p>

9	When platinum wire is heated, it appears cherry red at	A. 1600 °C B. 900 °C C. 1100 °C D. 1300 °C
10	When a water droplet falls through air, the net force on it is	A. Net force = drag force - weight B. Net force = weight - drag force C. Net force = drag force + weight D. Net force = weight + drag force
11	A typical four stroke petrol engine undergoes how many successive processes in each cycle	A. one B. two C. three D. four
12	Back emf is produced due to	A. Self induction B. Mutual induction C. A.C D. Lenz's law
13	Area under the force displacement graph gives	A. Power B. Work C. Heat D. Energy
14	A body of mass 5 kg is acted upon by a total change in momentum will be:	A. 10 NS B. 100 NS C. 140 NS D. 200 NS
15	The charge carriers in an electrolyte are	A. Positive ions B. Negative ions C. Either A or B D. Both A and B E. Neither A nor B
16	Terminal velocity is the maximum velocity attained by a spherical droplet when the drag force _____ the weight of droplet:	A. Is smaller than B. Is greater than C. Becomes equal to D. None of these
17	In metallic crystals which of the following thing remains constant	A. amplitude of oscillations B. temperature of solid C. average atomic positions D. all of them
18	At ordinary temperature, an increase in temperature increases the conductivity of	A. Conductor B. Semiconductor C. Insulator D. Alloy
19	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
20	A convex lens acts as diverging lens when the object is placed:	A. Between F and 2F B. At 2F C. With focal length D. Beyond 2F