

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

Sr	Questions	Answers Choice
1	A body moves a distance of 10 m along a straight line under the action of a force of 5 N and work done is 25J. the angle which the force makes with the direction of motion will be:	<p>A. 60°</p> <p>B. 90°</p> <p>C. 30°</p> <p>D. 0°</p>
2	In case of point source of light, shape of wavefront is	<p>A. Spherical</p> <p>B. Cylindrical</p> <p>C. Plane</p> <p>D. None of above</p>
3	If the absolute uncertainty of an instrument is 0.0a1 cm, then its least count will be :	<p>A. 0.005 cm</p> <p>B. 0.01 cm</p> <p>C. 0.02 cm</p> <p>D. 0.001 cm</p>
4	Substances which break just after the elastic limit is reached, are known as	<p>A. brittle substances</p> <p>B. ductile substances</p> <p>C. plastic substances</p> <p>D. elastic substances</p>
5	In magnet-coil experiment, emf can be produced by:	<p>A. Keeping the coil stationary and moving the magnet</p> <p>B. Keeping the magnet stationary and moving the coil</p> <p>C. Relative motion of the loop and magnet</p> <p>D. Any one of above</p> <p>E. All above</p>
6	A tight wire is clamped at two points 2 m apart. It is plucked near one end, What are the three longest wavelengths produced on the vibrating wire.	<p>A. 2 m, 1m, 0.67 m</p> <p>B. 4 m, 2m, 1m</p> <p>C. 4 m, 2m, 1.33 m</p> <p>D. 1m, 0.5 m, 0.33 m</p>
7	If an iron ball and a wooden ball of the same radius was released from a height 'h' in vacuum, then time taken by both of them to reach ground will be	<p>A. Unequal</p> <p>B. Exactly equal</p> <p>C. Roughly equal</p> <p>D. Zero</p>
8	Monochromatic light means waves of:	<p>A. Same frequency</p> <p>B. Same colour</p> <p>C. Same wavelength</p> <p>D. All of them</p>

9	Each atom in a metal crystal vibrates about a fixed point with an amplitude that:	A. Decrease the rise in temprature B. Is not affected by rise in temprature C. Increase with rise in temprature D. Both (B) and (C) E. None of these
10	The wave form of alternating voltage is the graph between:	A. Voltage across X-axis and time across y-axis B. Current and time C. Voltage along y-axis and time along x-axis D. Voltage and current E. Either (B) or (D)
11	If a 40 watt light bulb burns for 2 hours. how much heat is generated	A. $288 \times 10^3 \text{ J}$ B. $288 \times 10^8 \text{ J}$ C. $288 \times 10^5 \text{ J}$ D. $288 \times 10^6 \text{ J}$
12	The induced current in a conductor depends upon	A. Resistance of the loop B. Speed with which the conductor moves C. Any of these D. Both A and B E. None of these
13	In a metal, the valence electrons are:	A. Attached to individual atoms B. Not attached to individual atoms C. Free to move within the metal D. Both A and B E. Both A and C
14	The missing mass which is converted to energy in the formation of nucleus, is called	A. packing fraction B. mass defect C. binding energy D. none of these
15	Coulomb's force between two point charges depends upon	A. Magnitude of charges B. Distance between them C. Medium in which they are located D. All of the above
16	A thermistor is a resistor which is:	A. Light Sensitive B. Heat Sensitive C. Sound Sensitive D. All of these E. None of these
17	Amplitude in SHM is equivalent to _____ in circular motion:	A. Diameter B. Radius C. Circumference D. None of these
18	Thermistors are prepared under	A. High pressure and low temperature B. High pressure and high temperature C. Low pressure and low temperature D. Low pressure and high temprature E. None of these
19	According to the Bernoulli's theorem the pressure velocity are	A. equal to each other B. proportional to each other C. inversely proportional to each other D. none of them
20	The time rate of change of displacement is called:	A. Time B. Acceleration C. Speed D. Velocity