

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

Sr	Questions	Answers Choice
1	When a nucleus emits an alpha particles, its charge number decreases by	A. 3 B. 2 C. 6 D. 5
2	A second's pendulum is a pendulum whose time period is	A. 1 second B. 2 seconds C. 3 seconds D. 4 seconds
3	The change of order of vectors in a dot product of two vectors:	A. Changes its value B. Doesn't change it's value C. Changes the direction product quantity D. None of these
4	The current produced by moving a loop of a wire across a magnetic field is called:	A. Direct current B. Magnetic current C. Alternating current D. Induced current E. None of these
5	The SI unit of spring constant is identical with that of	A. Force B. Surface tension C. Pressure D. Loudness
6	If the water falls from a dam into a turbine wheel 19.6 m below, then the velocity of water at the turbine, is (Take $g=9.8 \text{ m/s}^2$)	A. 9.8 m/s B. 19.6 m/s C. 39.2 m/s D. 98.0 m/s
7	A mass difference of 0.0012 u is equivalent to and energy of:	A. 0.5 Me V B. 1.13 MeV C. 5.13 MeV D. 1.13 keV E. 1.13 eV
8	Electrostatics is the branch of physics which deals with the study of electro charges:	A. <p>At rest under the action of electric forces</p> <p>At rest under the action of nuclear forces</p> <p>In motion under the action of electric forces</p> <p>In motion under the action of nuclear forces</p> <p>At rest under the action of electric forces</p>
9	Transverse waves can be set up:	A. Solids B. Liquids C. Gases D. All of these

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10	In case of mechanical waves, we study the motion of	A. a single particle B. collection of particle C. any one of them D. none of them
11	Work done along a closed path in a gravitational field is:	A. Maximum B. Minimum C. Zero D. Unity
12	It is impossible to devise a processes which may convert heat, extracted from a single reservoir, entirely into work without leaving any change in the working system. This is the statement of	A. Clausius statement of second law B. Kelvin'sstatement of second law C. Clausius statement of first law D. Kelvin's statement of first law
13	When the speed of a body in a fluid increases then the drag force	A. decreases B. becomes zero C. increases D. non of them
14	The restoring force is _____ and opposite to the applied force within _____.	A. Equal, elastic limit B. Different, the walls of the laboratory C. Different, elastic limit D. None of these
15	Formula for calculating moment of inertia of the bodies of one pair is same. Tick the answer.	A. Disc, sphere B. sphere, hoop C. Thin rod, hoop D. Hoop,disc
16	The maximum possible error in the reading for a meter rod with least count 1 mm is:	A. 0.005 mm B. 0.05mm C. 0.5mm D. 5.0mm
17	If water rises 4 cm in a long, thin tube because of capillary action, then, under corresponding conditions of use, the rise (in the tube) of a liquid whose density is 2 g/cm ² will be	A. 1 cm B. 2 cm C. 8 cm D. None
18	Linear momentum is a	A. fixed quantity B. constant quantity C. scalar quantity D. vector quantity
19	Magnetic flux and flux density are related by	A. Flux density = flux x area B. Flux density = flux / area C. Flux density = flux - area D. None of these
20	Tick the correct answer:	A. Torque is a vector quantity B. Torque is the turning effect of a force C. Torque is called moment of a force D. All of above