

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

Sr	Questions	Answers Choice
1	If the stress increased beyond the elastic limit of the material. the deformation produced in the material will be	A. permanent B. temporary C. either of them D. none of them
2	Unit of viscosity is:	A. $\text{Kg m}^{-1}\text{sec}^{-1}$ B. N s m^{-2} C. J s m^{-3} D. All of these
3	The RMS value of alternating current is:	A. 0.7 times at the peak value B. 0.5 times the peak value C. 0.7 times the Instantaneous value D. Equal to maximum voltage E. None of these
4	γ -rays are	A. electrostatic waves B. electromagnetic waves C. heavy particles D. longitudinal waves
5	When angular acceleration is positive, the body rotates:	A. Slower B. Slowest C. Faster D. None of these
6	Lorentz force is defined as	A. $q(\mathbf{E} + \mathbf{V} \times \mathbf{B})$ B. $q(\mathbf{E} \times \mathbf{B} + \mathbf{V})$ C. $q(\mathbf{E} \times \mathbf{V} + \mathbf{B})$ D. $q(\mathbf{E} \times \mathbf{B})$
7	If d is the displacement of the body in time t , then its average velocity will be	A. $\langle v \rangle_{av} = \langle d \rangle_x t$ B. $\langle v \rangle_{av} = t / \langle d \rangle_x$ C. $\langle v \rangle_{av} = d / t$ D. $\langle v \rangle_{av} = \langle d \rangle_x / t$
8	The ability of the body to return to its original shape is called	A. deformation B. stretching C. compressing D. elasticity
9	A certain force gives an acceleration of 2 m/sec^2 to a body if mass 5 kg . The same force would give a 29 kg object an acceleration of:	A. 0.5 m/sec^2 B. 5 m/sec^2 C. 1.5 m/sec^2 D. 9.8 m/sec^2
10	The useful unit of the angular displacement in SI unit is:	A. Degree B. Revolution C. Radian D. Metre
11	Radioactivity is	A. self disruptive activity B. spontaneous activity C. exhibited by all elements under proper conditions D. both 'a' and 'b'
12	The value of E_{in} coulomb's law is:	A. $9 \times 10^9 \text{ Nm}^2 \text{ C}^{-2}$ B. $8.85 \times 10^{12} \text{ C}^2 \text{ N}^{-1} \text{ m}^{-2} \text{ C}^{-2}$ C. $8.85 \times 10^{12} \text{ Nm}^2 \text{ C}^{-2}$ D. $9 \times 10^9 \text{ C}^2 \text{ N}^{-1} \text{ m}^{-2}$
13	The basic circuit element in a d.c. circuit is a/an	A. Inductor B. Resistor C. Capacitor D. Battery

14	As the bob of the pendulum moves to and fro which of the force is experienced by the bob	A. its weight B. tension in the string C. viscous drag force by air D. all of them
15	Work has the dimension as that of:	A. Torque B. Angular momentum C. Linear momentum D. Power
16	Laws of motion are not valid in a system which is	A. inertial B. non-inertial C. at rest D. moving with uniform velocity
17	An Astronaut in space comes to know of an explosion on nearby planet. The astronaut came to know about this explosion because.	A. The astronaut saw, heard and felt the explosion B. The astronaut only saw the explosion C. The astronaut only heard the explosion D. The astronaut both saw and heard the explosion
18	A body is moving with constant velocity of 10 m/sec in the north-east direction. Then its acceleration will be:	A. 10 m/sec ² B. 20 m/sec ² C. 30 m/sec ² D. Zero
19	Acceleration in a body is always produced in the direction of :	A. Velocity B. Weight C. Force D. Both B and C
20	When the waveform of one voltage is increasing and that of second is decreasing and vice versa, then phase difference between these voltage is	A. 90° B. 75° C. 0° D. 180°