

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

Sr	Questions	Answers Choice
1	Two forces each of 10 N act on a body, if the force are inclined at 30° and 60° respectively with x-axis, then x-component of their resultant is:	A. 20 N B. 13.66 N C. 10 N D. 8.66 N
2	Above a certain velocity of a fluid is called	A. turbulent flow B. steady flow C. either of them D. both of them
3	A ball is dropped vertically down and it takes time t to reach the ground. At time t/2	A. The ball had covered exactly half the distance B. The velocity of the ball was V/3 where V is the velocity when it reached the ground C. The ball had covered less than half the distance D. The ball had covered more than half the distance
4	Which of the following does not obey ohm's law?	A. Copper B. Al C. Diode D. None
5	Heating effect of current utilized in:	A. Electric motor <o:p> </o:p> B. Electric toaster<o:p></o:p> C. Electroplating<o:p></o:p> D. Electric kettle<o:p></o:p> E. Electric kettle<o:p></o:p> E. Both (B) and (D) > <o:p>;p></o:p>
6	Unit of viscosity is:	A. Kg m ⁻¹ sec ⁻¹ B. Ns m ⁻² C. Js m ⁻³ D. All of these
7	Tick the conservation force:	A. Tension in a string B. Air resistance force C. Elastic spring D. Frictional force
8	The use of chips in electrons is described in the form of:	A. Yellow boxes B. Black boxes C. Red boxes D. White boxes E. Orange boxes
9	Electric potential of earth is taken to be zero because the earth is good	A. Semiconductor B. Conductor C. Insulator D. Dielectric
10	A line which represents the direction of travel of a wave is known as	A. Spherical wavefront B. Locus C. Ray D. Either B or C
11	Of the following, the option reminds of longitudinal waves.	A. Sound waves B. Heat waves C. Electromagnetic waves

		ப. Light waves
12	The intensity at a point due to a charge is inversely proportional to	A. Amount of charge B. Size of the charge C. Distance between charge and the point D. Square of the distance from the charge E. None of these
13	The fluid is incompressible, if itsdensity is	A. zero B. constant C. very high D. very small
14	At low speeds, the drag force is	A. proportional to speed B. inversely proportional to speed C. not simply proportional to speed D. none of them
15	Work done is independent of path followed in	A. Gravitational field B. Magnetic field C. Electric field D. All of these
16	Hold the solenoid in the right hand with fingers curling in the direction of current. The direction of the field will be given by:	A.
17	Newton's laws are adequate for speeds that are	A. low compared with the speed of light B. equal to the speed of light C. greater than the speed of light D. all of them
18	Rate of flow can be expressed in	A. litre/sec B. litre-sec C. sec/litre D. sec/litre-m
19	Drag force increases if speed of the object moving through the fluid:	A. Increases B. Decreases C. Remains constant D. None of these
20	A signal is amplified at the output without any change of phase, if it is applied at the	A. inverting input B. non-inverting input C. at any of the input D. none of these