

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

Sr	Questions	Answers Choice
1	Physical quantities are often divided into categories	A. 3 B. 2 C. 9 D. 5
2	A current carrying write loop is placed in between the poles of a magnet as shown in the figure below. The direction of current flow is also shown in the figure with respect to the axis, the wire loop will tend to.	A. Rotate clockwise B. Note move at all C. Rotate anti-clock wise D. Move towards magnetic north
3	If a car rest acceleration uniformly to a speed of 144 km/h in 20 s it covers a distance of	A. 20 m B. 400 m C. 1440 m D. 2880 m
4	If the time period a simple pendulum is 2 s, its frequency would be	A. 2 Hz B. 1.5 Hz C. 1.0 Hz D. 0.5 Hz
5	One coulomb of charge is created by	A. 10 electrons B. 1.6 x 10 ⁻¹⁹ electrons C. 6.25 x 10 ¹⁸ electrons D. 6.25 x 10 ²¹ electrons
6	The most common source of alternating voltage is:	A. Motor B. Transformer C. AC genrator D. Both (A) and (C) E. Both (A) and (B)
7	Which of the following is not thermo dynamical function?	A. Enthalpy B. Work done C. Gibb's energy D. Internal energy
8	Velocity of sound in vacuum (in m/s) is	A. 330 B. 1000 C. 156 D. 0
9	Which one of the following has larger value of relative permitivity E _r at room temperature?	A. Vaccum B. Air C. Glass D. Water
10	When certain nucleus emits an particle, its mass number:	A. Increases by one B. Decreases by one C. Remain same D. Decreases by four E. None of these
11	A diode characteristic curve is a plot between	A. current and time B. voltage and time C. voltage and current D. forward voltage and reversed voltage
12	0.1 kg mass will be equivalent to the energy	A. 9 x 10 ¹⁵ J B. 5 x 10 ⁸ J C. 6 x 10 ¹⁶ J D. 9 x 10 ⁻¹⁶ J
13	Laws of reflection and refraction can also be explained by:	A. Particle nature of light B. Quantum nature of light C. Wave nature of light D. Complex nature of light
14	A traveling wave has a shape of:	A. Square wave B. Sine wave C. Parabola D. hyperbola
		A. <span style="font-size:12 Opt:line-</span

A. <span style="font-size:12.0pt;lineheight:107%;font-family: "Times

15	The electric flux through any surface depends upon:	New Roman","serif"">Intensity of electric field<0:p> B. Area of the surface<0:p> C. Angle between intensity and area<0:p> D. Angle between intensity and area<0:p> D. All of these<0:p> E. None of these<0:p>
16	When an object moves with a uniform angular velocity, then its instantaneous angular velocity is equal to:	A. Zero B. Its average velocity C. Its angular displacement D. None of these
17	Consider a spherical shell of metal at he centre of which a positive point charge is kept	A. The electric filed is zero outside the shell B. The electric field is zero everywhere C. The electric field is zero in the region inside the shell D. The electric field is non-zero in both regions outside and inside the shell
18	A body with frequency of would complete one vibration in:	A. f seconds B. 1/f seconds C. 1 second D. f ² second
19	Torque is also called:	A. Momentum B. Linear inertia C. Moment of a force D. Mass
20	If the acceleration of a body is negative, then slope of the velocity-time graph will be:	A. Zero B. Positive C. Negative D. Infinity