

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

Sr	Questions	Answers Choice
1	In a cubic crystal, All solids meet at:	A. 60° B. 90° C. 109° D. 30° E. 10°
2	In n-p-n transistor, emitter base junction is kept	A. reversed B. forward biased C. may be reversed or may be forward biased D. none of these
3	The pressure of gas everywhere inside the vessel will be the same provided the gas is of	A. Non-uniform density B. uniform density C. high density D. low density
4	The Boltzman constant has the value	A. $1.38 \times 10^{-23} \text{ JK}^{-1}$ B. $1.28 \times 10^{-23} \text{ JK}^{-1}$ C. $1.38 \times 10^{-26} \text{ JK}^{-1}$ D. $1.28 \times 10^{-26} \text{ JK}^{-1}$
5	When a mass 'm' is pulled slowly, the spring stretches by an amount x_0 , then the work done will be	A. $W = Kx^2$ B. $W = \frac{1}{2}Kx^2$ C. $W = \frac{1}{2}Kx^2$ D. $W = 4Kx^2$
6	If the object and its image are located at a distance of 5 cm from the focus of a convex lens, the focus length of the lens will be:	A. 5 cm B. 10 cm C. 20 cm D. 25 cm
7	Neon gas have three isotopes whose atomic numbers are	A. 20, 24, 23 B. 20, 21, 22 C. 20, 19, 21 D. none of these
8	0.10 cm can be written as:	A. $1.0 \times 10^{-2} \text{ m}$ B. $1.0 \times 10^{-3} \text{ cm}$ C. $1.0 \times 10^{-4} \text{ cm}$ D. $1. \times 10^{-4} \text{ m}$
9	If the slope of the velocity-time graph increases at constant rate with time, then the body is said to have	A. uniform deceleration B. uniform negative acceleration C. average acceleration D. uniform positive acceleration
10	The dimensions of viscosity are:	A. $M^2 L^{-1} T^{-2}$ B. $M L^{-1} T^{-1}$ C. $M^{-1} L^{-1} T$ D. $M L^{-1} T^{-1}$
11	When a large number of atoms are brought close to one another to form a solid, each energy level of an isolated atom splits into sub-levels, called	A. energy bands B. energy shells C. states D. all of them
12	Conversion of A.C. into D.C. is called:	A. Rectification B. Amplification C. Electric induction D. Magnetic induction E. None of these
13	Work is always done on a body when:	A. A force acts on it B. It moves through certain distance C. None of A or B is correct D. Both A and B is correct

14	In all natural processes where heat flows from one system to another, there is always a net	A. decrease in entropy B. increase in entropy C. decrease or increase in entropy D. none of them
15	Waves transport energy	A. without transport energy B. with matter C. both of them D. none of them
16	Which of the following waves are more energetic	A. radio waves B. infrared waves C. ultraviolet D. >y-rays
17	Galvanometer is a device used for the detection of	A. voltage B. current C. temperature D. pressure
18	$F = I(L \times B)$ is a	A. vector B. scalar C. unit vector D. none of these
19	Resistance of a conductor is increased, the current will	A. Decrease B. Increase C. Remain the same D. None of these
20	The excess (equal in number) of electrons that must be placed on each of two small spheres spaced 3 cm apart, with force of repulsion between the spheres to be 10^{-19} N , is	A. 25 B. 225 C. 625 D. 1250