

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

Sr	Questions	Answers Choice
1	If the ratio of densities of two gases is 1:4, then the ratio of their rates of diffusion into one another is	A. 2 : 1 B. 4 : 1 C. 1 : 4 D. 3 : 4
2	The velocity of sound in air not effected by changes in	A. Moisture contents in air B. Temperature of air C. The atmosphere pressure D. The composition of air
3	One coulomb of charge is created by	A. 10 electrons B. 1.6×10^{-19} electrons C. 6.25×10^{18} electrons D. 6.25×10^{21} electrons
4	A mass of 5kg moves with an acceleration of 10 m s^{-2} force applied is	A. 10 N B. 50 N C. 2 N D. 20 N
5	If n denotes the total number of molecules in cubic vessel such that m is mass of each molecule and l is length of each side of vessel, then mnl^3 gives the:	A. Force B. Density C. Work done D. Pressure
6	In case of planets, the necessary acceleration is provided by:	A. Gravitational force B. Coulomb force C. Frictional force D. None of these
7	When a source of light is at very large distance, the shape of wavefront is:	A. Spherical B. Cylindrical C. Plane D. None of these
8	The resistance offered by a fluid to a solid moving inside it is called:	A. Drag force B. Surface force C. Viscosity D. None of these
9	A resistance used in galvanometer to make it voltmeter is called	A. shunt resistance B. high resistance C. zero resistance D. none of these
10	With increase of temperature, the viscosity of liquid and gases	A. Increases for both B. Decreases for both C. Increases for liquids and decreases for gases D. Decreases for liquids and increases for gases
11	Braking radiation causes:	A. Continuous spectrum B. Line Spectrum C. Band spectrum D. Discrete spectrum E. All of these
12	In which of the following components, pn-junction is used	A. light emitting diode B. photo diode C. photo voltaic cell D. all of these
13	Which of the following are the units of intensity of light	A. Pois B. Lux C. Siemen D. Candela
14	In which process the condition for the application of Boyle's law on the gas is fulfilled	A. isochoric process B. adiabatic process C. isothermal process D. none of them

15	If a mass of 10 gm is suspended from a spring of $k = 9.8 \text{ Nm}^{-1}$, then the extension will be:	B. 1 m C. 10 mm D. None of these
16	A stone is dropped from rest from the top of a tower 19.6 m high. The distance traveled during the last second of its fall is (giving $g=9.8 \text{ m/s}^2$)	A. 9.8 m B. 14.7 m C. 4.9 m D. 19.6 m
17	Through which character we can distinguish the light waves from sound waves	A. Interference B. Refraction C. Polarization D. Reflection
18	The transition from solid to liquid is actually from:	A. Order to disorder B. Disorder to order C. Order to order D. Disorder to disorder E. None of these
19	The fractional change in resistance per kelvin is known as	A. temperature coefficient B. resistance coefficient C. super temperature D. critical temperature
20	If N is the total number of molecules and V is the volume of the container, then the expression for the pressure of gas is	A. $P = \frac{1}{3} \frac{N}{V} m \overline{v^2}$ B. $P = \frac{2}{3} \frac{N}{V} m \overline{v^2}$ C. $P = \frac{2}{3} \frac{N}{V} m \overline{v^2}$ D. $P = \frac{2}{3} \frac{N}{V} m \overline{v^2}$