

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

Sr	Questions	Answers Choice
1	Tick the series which lie/s in. the infra-red region.	A. Pfund series B. Brackett series C. Paschen series D. All of these E. None of these
2	In a cubic crystal, All solids meet at:	A. 60° B. 90° C. 109° D. 30° E. 10°
3	When the different streamlines cannot cross each other, then this condition is known as	A. continuity condition B. turbulent flow condition C. steady flow condition D. none of them
4	In metallic crystals which of the following thing remains constant	A. amplitude of oscillations B. temperature of solid C. average atomic positions D. all of them
5	Electrons are	A. positive charged B. negatively charged C. massless D. neutral
6	An object in SHM will have maximum speed when its displacement from equilibrium position is:	A. Infinity B. Maximum C. Zero D. Minimum
7	If force and displacement are in opposite direction, the work done is taken as:	A. Positive work B. Negative work C. Zero work D. Infinite work
8	For a moving body, at any instant of time	A. If the body is not moving the acceleration is necessarily zero B. If the body is slowing, the retardation is negative C. If the body is slowing, the distance is negative D. If displacement, velocity and acceleration at that instant are known, we can find the displacement at any given time in future
9	The transitions of electrons in the hydrogen atom result in the emission of spectral lines in the:	A. Ultra red region B. Visible region C. Ultraviolet region D. Any of these E. None of these
10	The direction of the linear momentum is the direction of	A. speed B. velocity C. weight D. none of them
11	Total number of turns on 0.15 m length solenoid is 300. the value of n is:	A. Greater than 300 B. Smaller than 300 C. Equal to 300 D. Any of (A) or (B) E. Any of (A) or (C)
12	The Space around the Earth within which it exerts a force of attraction on other bodies is known as	A. Nuclear field B. Conservative field C. Electric field D. Gravitational field
13	Glass and high carbon steel are the examples of	A. brittle substances B. ductile substances C. plastic substances D. elastic substances

14	When radioactive nucleus emits a β -particle, the proton-neutron ratio	A. decrease B. increase C. same D. none of these
15	In deriving the Bernoulli's equation, we assume that the fluid is	A. incompressible B. no viscous C. flows in a steady manner D. all of them
16	A non-inertial frame of reference is that frame of reference in which	A. $\langle \mathbf{a} \rangle = 0$ B. $\langle \mathbf{a} \rangle \geq 0$ or $\langle \mathbf{a} \rangle \leq 0$ C. $\langle \mathbf{v} \rangle = 0$ D. none of them
17	If an amount of heat enters the system it could	A. decrease the internal energy B. not change the internal energy C. increase the internal energy D. none of them
18	Surface density of charge is defined as	A. Charge per unit volume B. Charge per unit length C. Charge per unit area D. Charge per unit mass
19	An emf is set up in a conductor when it:	A. is kept in a magnetic field B. is kept in a electric field C. Move across a magnetic field D. Both (A) and (B) E. None of these
20	The current is measured in	A. volts B. watt C. ampere D. ohm