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

Sr	Questions	Answers Choice
1	In half wave rectification	A. both halves of the input voltage is used B. only one half of the input voltage is used C. either of these D. none of these
2	Aerodynamics is a branch of	A. Hydrodynamics B. Thermodynamics C. Both of them D. Statics
3	The locus of all the points in the same phase of vibration is called	A. Wave pocket B. Wavefront C. Wave number D. None of these
4	If d is the displacement of the body in time t, then its average velocity will be	A. $V_{av} = d \times t$ B. $V_{av} = t/d$ C. $V_{av} = d/t$ D. $V_{av} = d/t$
5	Such oscillations in which the amplitude decreases steadily with time, are called	A. resonance B. force oscillations C. large oscillations D. damped oscillations
6	In RC series circuit the time during which the capacitor acquires 0.63 times the equilibrium charge is called	A. Time constant B. Decay constant C. None of these D. All of above
7	When a platinum wire is heated, it appears white at	A. $1600\,°C$ B. $900\,°C$ C. $1100\,°C$ D. $1300\,°C$
8	A person is sitting in a traveling train and facing the engine. He tosses up a coin and the coin falls behind him. It can be concluded that the train is	A. Moving forward and gaining speed B. Moving forward and losing speed C. Moving forward with uniform speed D. Moving backward with uniform speed
9	Which of the following has the greatest coefficient of viscosity?	A. water B. gasoline C. honey D. tar
10	Ohm's law states that	A. The current through a resistor is directly proportional to the applied voltage B. The voltage across a resistor is directly proportional to the current passing through it C. Resistance is the constant of proportionality between the voltage and current D. all of these
11	If a vector lies in second quadrant, than B_x and B_y are:	A. -,+ B. +,- C. +,+ D. -,-

#	Question	Options
12	Astrophysics is a branch of physics, which deals with:	A. Sub-atomic particles B. Stars and galaxies C. Light and sound D. Music
13	The dimensions of viscosity are:	A. $M^2L^{-1}T^{-2}$ B. $M^{-1}L^1T^{-1}$ C. $M^{-1}L^{-1}T$ D. $ML^{-1}T^{-1}$
14	The energy stored in a charge capacitor	A. $1/2CV^2$ B. $1/2C^2V$ C. $1/2C/V^2$ D. None of these
15	Acceleration produced in a body by a force varies	A. inversely as the applied force B. directly as the applied force C. directly as the mass of the body D. none of them
16	The expression for restoring force is	A. F=ma B. F=kx C. F= -kx D. Kx=ma
17	During the free fall motion of an object, when its weight becomes equal to the drag force, then it will move with	A. maximum speed B. zero speed C. maximum speed D. none of them
18	Glycerin has viscosity _____ the viscosity of water:	A. More than B. Equal to C. Less than D. None of these
19	What is the current is a 2×10^6 ohm resistor having a potential difference of 2×10^3 volts?	A. 10^{-1}A B. 10^{-2}A C. 10^{-4}A D. 1 mA
20	Slope of velocity time graph represents:	A. Acceleration B. Speed C. Torque D. Work