

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

Sr	Questions	Answers Choice
1	Consider two spheres A and B of radii $r_a$ and $r_b$ both concentric with point charge $Q$ , If $r_a > r_b$ then the total flux passing normally through the sphere A and B is related as	<p>A. Flux through A is greater</p> <p>B. Flux through both sphere is equal</p> <p>C. Flux through a may be greater or less than <math>Q</math> depending on radius</p> <p>D. Flux through sphere B is greater</p>
2	One radian is:	<p>A. Greater than one degree</p> <p>B. Less than one degree</p> <p>C. Equal to one degree</p> <p>D. None of these</p>
3	When relatively simple molecules are chemically combined into massive molecules, the reaction is called:	<p>A. Fission reaction</p> <p>B. Fusion reaction</p> <p>C. Polymerization</p> <p>D. Any of these</p> <p>E. None of these</p>
4	For measuring large currents, an ordinary galvanometer cannot be used without proper, then both relates with each other as	<p>A. modification</p> <p>B. voltage</p> <p>C. current</p> <p>D. resistance</p>
5	Nucleon means:	<p>A. Only electrons</p> <p>B. Only neutrons</p> <p>C. Only protons</p> <p>D. Both (A) and (C)</p> <p>E. Both (B) and (C)</p>
6	If the distance between two charges is doubled, the force between them will become:	<p>A. Double</p> <p>B. Half</p> <p>C. Three times</p> <p>D. One fourth</p> <p>E. One third</p>
7	Glass is an example of	<p>A. crystalline solid</p> <p>B. amorphous solid</p> <p>C. polymeric solid</p> <p>D. none of them</p>
8	In photoelectric effect the energy of ejected electrons depend on	<p>A. The frequency</p> <p>B. The intensity</p> <p>C. Both frequency and intensity</p> <p>D. None of these</p>
9	When a charged particle passes through matter, it produces ionization, this effect is used in	<p>A. fission reaction</p> <p>B. reactor</p> <p>C. radiation detector</p> <p>D. fusion reaction</p>
10	The square of 0.4 is:	<p>A. Greater than 0.4</p> <p>B. Smaller than 0.4</p> <p>C. Equal to 0.4</p> <p>D. None of them</p>
11	When a body is moving with uniform positive acceleration, the velocity- time graph is a straight line. Its slope is	<p>A. zero</p> <p>B. negative</p> <p>C. positive</p> <p>D. non-existing</p>
12	During the free fall motion of an object, when its weight becomes equal to the drag force, then it will move with	<p>A. maximum speed</p> <p>B. zero speed</p> <p>C. maximum speed</p> <p>D. none of them</p>
13	Photoelectric effect takes place with a photon of:	<p>A. Very high energy</p> <p>B. Very low energy</p> <p>C. Low energy</p> <p>D. High energy</p> <p>E. None of these</p>
14	The displacement coincides with the path of the motion when a body moves is a	<p>A. curved line</p> <p>B. straight line</p> <p>C. may be curved or straight</p> <p>D. none of them</p>

15	The force experienced by an electron projected in a magnetic field B with a velocity V is given by	A. $F = e(V \times B)$ B. $F = -e(V \times B)$ C. $F = e(B \times V)$ D. Both a and c
16	If the length of the conductor is double and its cross sectional area is halved, its conductance will	A. Increase four fold B. Become one-fourth C. Become one-half D. Remains unchanged
17	The law of conservation of energy gives us	A. equation of continuity B. Bernoulli's theorem C. both of them D. none of them
18	The rate change of area expressed is expressed in:	A. None of these B. $m s^{-1}$ C. $m^2 s^{-2}$ D. $m s^{-2}$ E. $m^2 s^{-1}$
19	Nucleus consists of	A. proton and neutron B. protons and electron C. electron and neutron D. protons only
20	Substances which break just after the elastic limit is reached, are known as	A. brittle substances B. ductile substances C. plastic substances D. elastic substances