

ECAT Physics Online Test

Sr	Questions	Answers Choice
1	Change in momentum is one second is called:	<p>A. Impulse B. Force C. Energy D. Work</p>
2	The closed loop gain of the non-inverting amplifier is given by	<p>A. $G = R_2/R_1$ B. $G = -R_2/R_1$ C. $G = 1 + R_2/R_1$ D. $G = 1 + R_2/R_1$</p>
3	If the flow is incompressible and the flow is steady then the mass of the fluid through the pipe	<p>A. increases B. decreases C. becomes zero D. is conserved</p>
4	When some compass needles are placed on a card board along a circle with the center at the wire, they will	<p>A. Point in the direction of N-S</p> <p>B. Set themselves tangential to the circle</p> <p>C. Point in the direction of E-W</p> <p>D. None of these</p> <p>E. Point in direction of S-E</p>
5	In a metal, the valence electrons are:	<p>A. Attached to individual atoms</p> <p>B. Not attached to individual atoms</p> <p>C. Free to move within the metal</p> <p>D. Both (A) and (C)</p> <p>E. Free to move within the metal</p>

6	The work done by the system on its environment is considered as	A. positive B. negative C. zero D. any one of them
7	A pair of quark and antiquark makes a:	A. Meson B. Baryon C. Proton D. Neutron E. None of these
8	Ball pen functions on the principle of	A. Viscosity B. Boyle's law C. Gravitational force D. Surface tension
9	When the deformation produced in the material becomes permanent, this type of behaviour is called	A. proportionality B. elasticity C. plasticity D. none of them
10	According to the law of conservation of linear momentum, the total linear momentum of an isolated system	A. increases B. decreases with time C. remains constant D. none of them
11	Swimming is based on the principle of	A. Newton's 1st law B. Newton's 2nd law C. Newton's 3rd law D. All
12	The SI unit of flux density is.	A. Tesla B. Weber C. Gauss D. Weber/meter
13	A motorist travels A to B at a speed of 40 km/h and returns at a speed of 60 km/h. His average speed will be	A. 40 km/h B. 48 km/h C. 50 km/h D. 60 km/h
14	Tick the one which is not a crystalline solid:	A. Zirconia B. Glass C. Copper D. Ceramic solid E. An ionic compound
15	Distance traveled by a body falling from rest in the first, second and third second is in the ratio of	A. 1 : 2 : 3 B. 1 : 3 : 5 C. 1 : 4 : 9 D. None of the above
16	The value of viscosity of a fluid is dependent on (at constant temperature)	A. the fluid itself B. the fluid and its container C. anything in contact with the fluid D. all of the above
17	Polymeric solids have	A. low specific gravity B. high specific gravity C. either of them D. none of them
18	The electrical forces between the molecules of a liquid are	A. Repulsive B. Attractive C. Both A and B D. None
19	A curie represents a very strong source of	A. α -particle B. β -particle C. γ -particle D. none of these
20	The smallest three dimensional basic structure is called as:	A. An atom B. Unit cell C. Crystal lattice D. Polymer E. None of these

