ECAT Pre General Science Physics Online Test

Sr	Questions	Answers Choice
1	In transverse waves, the individual particles of the medium move:	A. In circles B. Perpendicular to the direction of level C. Parallel to the direction of level D. None of these
2	Which of the following are the units of intensity of light	A. Pois B. Lux C. Siemen D. Candela
3	If you are moving at relativistic speed between two points that are a fixed distance apart, then the distance between the two points appers	A. larger B. shorter C. equal D. none of these
4	The value of relative permittivity of different dielectrics are:	A. Equal B. Different C. Greater than one D. Smaller than one E. Both (B) and (C)<o:p></o:p>
5	The combined effect of resistance and reactance in a.c. circuit is called	A. conductance B. resistance C. impedance D. choke
6	The ability of the body to return to its original shape is called	A. deformation B. stretching C. compressing D. elasticity
7	An ideal choke (used along with fluorescent tube) would be	A. A pure resistor B. A pure capacitor C. A pure inductor D. A combination of an inductor and a capacitor
8	β-particles are easily deflected by collisions than heavy	A. α-particles B. β-particles C. γ-particles D. none of these
9	If the focal length of the convex lens is 5 cm, then to get the real and inverted image of the same size as that of object, the object should be placed at:	A. 15 cm B. 10 cm C. 20 cm D. 5 cm
10	According to the equation of continuity, when water falls from the tap, it's speed increases and its cross-sectional area	A. decreases B. increases C. becomes zero

		D. none of them
11	One newton is a force that produces an acceleration of 0.5 m/sec^{2}in a body of mass:	A. 2 kg B. 3 kg C. 4 kg D. 8 kg
12	Ethanol (alcohol) as a type of:	A. Electric fuel B. Bio fuel C. Nuclear fuel D. None of these
13	All trigonometric functions (sine, cosine, tangent etc) are positive in:	A. 1st quadrant B. 2nd quadrant C. 3rd quadrant D. 4th quadrant
14	Centripetal acceleration is also called _____ acceleration:	A. Tangential B. Radial C. Angular D. None of them
15	Within each domain, the magnetic field of all the spinning electrons are	A. parallel B. antiparallel C. perpendicular D. all of them
16	The rate of change of momentum of a molecule is equal to:	A. Pressure B. Work C. Density D. Force
17	Distance traveled by a body falling from rest in the first, second and third second is in the ration of	A. 1 : 2 : 3 B. 1 : 3 : 5 C. 1 : 4 : 9 D. None of the above
18	Max plank founded a mathematical model resulting in an equation that describes the shape of observed black body radiation curves exactly, in	A. 1890 B. 1895 C. 1900 D. 1905
19	Tick the conservative force	A. Tension in a string B. Air resistance C. Elastic spring D. Frictional force
20	SI unit of impedance is	A. hertz B. henry C. ampere D. ohms