Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	At low speeds, the drag force is	A. proportional to speed B. inversely proportional to speed C. not simply proportional to speed D. none of them
2	Two satellites are to be launched into space from the surface of eatth satellite 1 has mass 10 kg and volume 1500 cm3. While satellite 2 has mass 5 kg and volume 1000 m3. Assume the required escape velocities of satellite 1 and satellite 2 are v 1 and v2 , respectively. The relation between v1 and v2 is.	A. Relation depends on the launch B. V1>V2 C. V1 = V2 D. V1 <V2
3	Work has a dimension as that of:	A. Torque B. Angular momentum C. Linear momentum D. Power
4	When body moves along a circular path with constant speed, it has an acceleration, which is always directed;	A. Along the tangent B. Towards the centre C. Away from the centre D. None of them
5	A container has a small hole in the bottom. Air can go through this hole,but water cannot. This can be best explained by the statement that	A. water contains hydrogen atoms, air does not B. water molecules are smaller than molecules in the air C. water molecules are smaller than molecules in the air D. surface tension of the water prevents it from
6	A thermistor with positive temperature coefficient in used to measure temperature in a furnace. As the furnace heats up, the resistance value fo the thermistor.	A. Decrease B. Remains unchanged C. Increase D. None of the above
7	Speed of Sound in vacuum is.	A. 332 m sec -1 B. 0. m sec-1 C. 340 m sec-1 D. 350 m sec-1
8	The SI unit of flux density is.	A. Tesla B. Weber C. Gaun D. Weber/meter
9	When the droplet moves with terminal velocity in a fluid, the net force acting on the droplet is:	A. F_D-mg B. Zero C. mg-F_D D. None of these
10	One radian is:	A. Greater than one degree B. Less than one degree C. Equal to one degree D. None of them
11	The CRO deflects the beam of electrons, when they passes through uniform	A. electric field B. gravitational field C. magnetic flax D. magnetic field
12	The electric field will be uniform	A. Near a positive point charge B. Near a negative point charge C. Between two oppositely charged parallel metal plates D. None of above
13	When platinum wire is heated, it appears cherry red at	A. 1600°C B. 900°C C. 1100°C

		D. 1300<span style= color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°C
14	The branch of physics which is mainly concerned with the motion of bodies under the action of forces is called:	A. Optics B. Mechanics C. Thermodynamics D. Astro physics
15	Current is measured in	A. volts B. watt C. ohm D. ampere
16	The drag force acting on a spherical droplet of radius 10^{-5}m moving with a velocity of 1 cm/sec in a fluid of velocity 5.31 x 10^{-7}m/sec. The units comes out to be:	A. 10⁻¹⁶N B. 10⁻¹⁴N C. 10⁻¹²N D. 10⁻¹⁰N
17	An inkjet printer uses in its operation:	A. Neutrons only<o:p></o:p> B. Mesons only<o:p></o:p> C. Positrons and photons<o:p></o:p> D. An electric charge<o:p></o:p> E. None of these<o:p></o:p>
18	The power dissipation in a pure inductive or capacitance circuit is	A. maximum B. positive C. zero D. none
19	Inertial frame of references are those frame of references which are moving with	A. increasing velocity B. decreasing velocity C. constant velocity D. all of them
20	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