

## ECAT Physics Online Test

Sr	Questions	Answers Choice
1	A body is thrown from a height h with speed u, it hits the ground with speed V	A. The value of V is maximum if the body is thrown vertically downward B. The value of V is maximum if the body is thrown vertically upwards C. The value of V is minimum if the body is thrown horizontally D. The value of V does not depend on the direction of which it is thrown
2	A motorist travels A to B at a speed at 40 km/h and returns at speed of 60km/h. His average speed will be	A. 40 km/h B. 48 km/h C. 50 km/h D. 60 km/h
3	High speed meteors rushing through air reduces to ashes because of:	A. Force of gravity B. High resistance of air C. Drag force D. None of these
4	Glass and high carbon steel are the examples of	A. brittle substances B. ductile substances C. plastic substances D. elastic substances
5	The excess (equal in number) of electrons that must be placed on each of two small spheres spaced 3 cm apart, with force of repulsion between the spheres to be $10^{-19}$ N, is	A. 25 B. 225 C. 625 D. 1250
6	The motion of a projectile is	A. one dimension B. two dimension C. three dimension D. all of them
7	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
8	The passage of current is accompanied by a magnetic field in the surrounding space:	A. <span style='font-size: 12pt; line-height: 107%; font-family: "Times New Roman", serif;'>Always accompanied  b. <span style='font-size:12.0pt; line-height:107%; font-family:"Times New Roman", "serif"'>Sometimes accompanied<o:p></o:p></span> C. <span style='font-size:12.0pt; line-height:107%; font-family:"Times New Roman", "serif"'>Never accompanied<o:p></o:p></span> D. <span style='font-family: "Times New Roman", serif; font-size: 12pt; text-align: justify;'>Any of above</span></span>

	D. None of the above
A.C. can be measure with the help of	A. Nuclear effect B. Magnetic effect C. Chemical effect D. Heating effect
The behaviour of gases is well accounted by the kinetic theory based on	A. microscopic approach B. macroscopic approach C. both of them D. none of them
For a moving body, at any instant of time	A. If the body is not moving the acceleration is necessarily zero B. If the body is slowing, the retardation is negative C. If the body is slowing, the distance is negative D. If displacement, velocity and acceleration at that instant are known, we can find the displacement at any given time in future
At resonance, the impedance of RLC series circuit is	A. Maximum B. Zero C. Minimum D. Determinate
A medium of dielectric constant 'K' is introduced between the plates of parallel plate condenser. As a result its capcitance	A. Increase k time B. Decreases k times C. Decreases 1/K times D. Remains unchanged
Improper biasing of a transistor circuit produces	A. Heavy loading of emitter current     B. Distortion in the output signal     C. Excessive heat at collector terminal     D. Faulty location of load line
The horizontal range of projectile, at a certain place, depends upon	A. the mass of the projectile     B. velocity of projection     C. angle of projection     D. angle as well as velocity of projection
The SI unit of charge is	A. Ampere B. Watt C. Coulomb D. Volt E. Joule
First law of thermodynamics tells us that heat energy can be converted into equivalent amount of work, but it is silent about	A. how heat is absorbed B. how heat extracted C. how this conversion takes place D. none of them
The maximum stress that a material can withstand, is known as	A. plastic point B. elastic limit C. yield point D. ultimate tensile strength
Resistance of a conductor depends upon	A. the quantity of current passing through it B. the voltage applied between its end C. its dimensions, physical state and nature of its material D. all of the above
	The behaviour of gases is well accounted by the kinetic theory based on  For a moving body, at any instant of time  At resonance, the impedance of RLC series circuit is  A medium of dielectric constant 'K' is introduced between the plates of parallel plate condenser. As a result its capcitance  Improper biasing of a transistor circuit produces  The horizontal range of projectile, at a certain place, depends upon  The SI unit of charge is  First law of thermodynamics tells us that heat energy can be converted into equivalent amount of work, but it is silent about  The maximum stress that a material can withstand, is known as