

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

Sr	Questions	Answers Choice
1	The direction of a vector in space requires:	<p>A. X-axis B. X and Y-axes C. XYZ axes D. Y and Z-axes</p>
2	The magnitude of alternative voltage V:	<p>A. Always increase B. Always decrease C. Remains constant D. Does not remain constant E. None of these</p>
3	The conduction band in a solid	<p>A. may be empty B. cannot be empty C. should be filed D. all of them</p>
4	When a constant potential difference is applied across the conductor, the drift velocity of electrons:	<p>A. <code><p class="MsoNormal" style="text-align:justify">Increases<o:p></o:p></p></code> B. <code><p class="MsoNormal" style="text-align:justify">Decreases<o:p></o:p></p></code> C. <code><p class="MsoNormal" style="text-align:justify">Remains the constant<o:p></o:p></p></code> D. <code><p class="MsoNormal" style="text-align:justify">Either of these<o:p></o:p></p></code> E. <code><p class="MsoNormal" style="text-align:justify">None of these<o:p></o:p></p></code></p>
5	If we increase the distance between two plates of the capacitor, the capacitance will	<p>A. Increase B. Decrease C. Remain same D. First increase then decrease</p>
6	The value of resistivity is the least for:	<p>A. Copper B. Aluminium C. Silver D. Tungsten E. Iron</p>
7	The law of electromagnetic induction is related to:	<p>A. Coulomb B. Ampere C. Faraday D. Lenz E. None of these</p>
8	The pressure exerted by the gas is	<p>A. directly proportional to the P.E B. inversely proportional to the P.E C. inversely proportional to the K.E D. directly proportional to the K.E</p>
9	When the waveform of one voltage is increasing and that of second is decreasing and vice versa, then phase difference between these voltage is	<p>A. 90° B. 75° C. 0° D. 180°</p>
10	A particle is moving along a circular path with uniform speed. Its projection will	<p>A. Circular motion, circumference B. Vibrator, chord</p>

execute _____ along the _____ of the circle:

- C. SHM, diameter
- D. SHM, circumference

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- 11 The number of neutrons in the nucleus of ${}_{92}\text{U}^{235}$ are
- A. Infinite
 - B. 92
 - C. 235
 - D. 143
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- 12 X-rays can penetrate in a solid matter through a distance of several:
- A. Kilo metres
 - B. Metres
 - C. Centimeters
 - D. A few angstroms
 - E. One micrometer
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- 13 If rope of lift breaks suddenly. The tension exerted by the surface of lift is (a=Acceleration of lift)
- A. mg
 - B. $m(g+a)$
 - C. $m(g-a)$
 - D. 0
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- 14 Aerodynamics is a branch of
- A. Hydrodynamics
 - B. Thermodynamics
 - C. Both of them
 - D. Statics
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- 15 A wave, which transfer energy by moving away from the source of disturbance is called a
- A. progressive wave
 - B. travelling wave
 - C. both of them
 - D. none of them
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- 16 If the mass of the simple pendulum becomes double, its time period
- A. increase
 - B. decreases
 - C. remains constant
 - D. none of them
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- 17 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
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- 18 A person is sitting in a traveling train and facing the engine. He tosses up a coin and the coin falls behind him. It can be concluded that the train is
- A. Moving forward and gaining speed
 - B. Moving forward and losing speed
 - C. Moving forward with uniform speed
 - D. Moving backward with uniform speed
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- 19 The quantity $F \times t$ is called as
- A. momentum
 - B. velocity
 - C. acceleration
 - D. impulse
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- 20 Fluids have three types of energies. The Bernoulli's equation combines those energies. which of the following is one of the three energies possessed by a fluid?
- A. potential energy
 - B. pressure energy
 - C. strain energy
 - D. (a) and (b) only