

## Physics ECAT Pre Engineering MCQ's Test For Full Book

Qr.	Questions	Anguara Chaiga
Sr 1	When a constant potential difference is applied across the conductor, the drift velocity of electrons:	A. <span style='font-size:12.0pt; line-height:107%;font-family:"Times New Roman","serif"'>Increases&lt;0:p&gt;</span> B. <span style='font-size:12.0pt; line-height:107%;font-family:"Times New Roman","serif"'>Decreases&lt;0:p&gt;</span> C. <span style='font-size: 12pt; line-height: 107%; font-family: "Times New Roman", serif;'>Remains the constant<b><o:p></o:p></b></span> D. <span style='font-size:12.0pt; line-height:107%; font-family: "Times New Roman", serif;'>Remains the constant<b><o:p></o:p></b></span> E. <span style='font-size:12.0pt; line-height:107%; font-family:" Times New Roman", "serif"'>Either of these<o:p></o:p></span> E. <span style='font-size:12.0pt; line-height:107%; font-family:" Times New Roman", "serif"'>None of these<o:p></o:p></span>
2	A particle of mass 0.5 g moving along x-axis is located of $x_1$ = 15 m at $t_1$ = 5s and $x_2$ = 33 m at $t_2$ = 13s its average velocity is	A. 6 m s <sup>-1</sup> B. 2.45 m s <sup>-1</sup> C. 2.25 m s <sup>-1</sup> D. 4.45 m s <sup>-1</sup>
3	A point charge A of charge $+4\mu C$ and another B of charge $-1\mu C$ are placed in air at a distance 1 m apart. Then the distance of the point on the line joining the charge B, where the resultant electric field is zero, is (in m)	A. 2 B. 1 C. 0.5 D. 1.5
4	The smooth or steady stream-line flow is know as	A. Laminar flow B. Turbulent flow C. Both a and b D. None of the above
5	Which of the following diode is used for the detection of light	A. photo diode B. light emitting diode C. photo voltaic cell D. all of them
6	A car battery has e.m.f 12 volt and internal resistance $5 \times 10^{-2}$ ohm. If it draws 60 ampere current, the terminal voltage of the battery will be	A. 5 volt B. 3 volt C. 15 volt D. 9 volt
7	In a transistor, if the central region is n-type, then this type of transistor is known as	A. n-p-n transistor B. p-n-p transistor C. either of these D. none of these
8	A coil of constant area is placed in a constant magnetic field. An include current is produced in the coil when:	A. The coil is destroyed B. The coil is Rotated C. The coil is neither destroyed nor rotated D. Both (A) and (B) E. None of these
9	Silicon can be obtained from	A. Lead B. Uranium C. An isotope of oxygen D. Sand
10	First law of thermodynamic is special case of	A. Law of conservation of energy     B. Charle's law     C. Law of conservation of mass     D. Boyle's law
11	A projectile on its path gets divided into two pieces at its highest point. Which is true?	A. Momentum increases B. Momentum decreases C. Kinetic energy increases

		D. Kinetic energy decreases
12	In a cubic crystal, All solids meet at:	A. 60 <sup>o</sup> B. 90 <sup>o</sup> C. 109 <sup>o</sup> D. 30 <sup>o</sup> E. 10 <sup>o</sup>
13	Velocity of sound in a diatomic as is 300 m/sec. what is its rms velocity?	A. 400 m/sec B. 40 m/sec C. 430 m/sec D. 300 m/sec
14	The maximum displacement of a body on either side of its equilibrium position is called	A. frequency B. amplitude C. displacement D. time period
15	The viscous the medium is, is the value of terminal velocity of the droplet:	A. More, lesser B. Lesser, more C. Both A and B D. Lesser, lesser
16	Energy gas behaves like an ideal gast at	A. High temperature and low pressure B. Low temperature and high pressure C. Both A and B D. None
17	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
18	With the increase of temperature viscosity	A. Increase B. Decrease C. Remains same D. Doubles
19	The chemical properties of all the isotopes of an elements are	A. same B. different C. slightly different D. none of these
20	At what temperature the adiabatic change is equivalent to the isothermal change?	A. Zero degree Celsius     B. Zero Kelvin     C. Critical temperature     D. Above critical temperature