

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

Sr	Questions	Answers Choice
1	Which quantity has different dimensions:	A. Work <b>B. Pressure</b> C. Energy D. Torque
2	An alpha particle is accelerated through a potential difference of $10^6$ volt. Its kinetic energy will be	A. 1 MeV <b>B. 2 MeV</b> C. 4 MeV D. 8 MeV
3	Mass of proton is of order of	A. $10^{-31}$ gm <b>B. <math>10^{-27}</math> kg</b> C. $10^{-24}$ gm D. $10^{+27}$ kg
4	According to the de-Broglie relation, an object of large mass and ordinary speed has	<b>A. very small wavelength</b> B. very large wavelength C. very small frequency D. all of these
5	When two spherical conducting balls at different potentials are joined by a metallic wire, after some time:	A. <p style="font-size: 12pt; margin: 0;">Both the conductors are at the same potential</p>
		B. <p style="font-size: 12pt; margin: 0;">Potential difference across the conductors remain constant</p>
		C. <p style="font-size: 12pt; margin: 0;">Potential difference across the conductors becomes zero</p>
		D. <p style="font-size: 12pt; margin: 0;">Both (A) and (B)</p>
		<b>E. <p style="font-size: 12pt; margin: 0;">Both (A) and (C)</p></b>
6	The pattern of crystalline solid is:	A. One dimensional B. Two dimensional <b>C. Three dimensional</b> D. None of these E. Either (A) or (B)
7	Relativistic mechanics is a branch of physics, which deal with the bodies moving with velocities:	A. More then c <b>B. Approaching c</b> C. Equal to c D. Much less than x
8	The ratio of the diameter of two convex lenses is _____-the ratio of their focal lengths:	A. Greater than B. Less than <b>C. Equal to</b> D. None of these
9	The state in which ice, water and vapour coexists in equilibrium is called	A. zero degree celsius B. zero degree fahrenheit <b>C. absolute zero</b> D. 373 K

10	A dirty carpet is to be cleaned by heating. This is an accordance with _____ law of motion:	A. First B. Second C. Third D. None of these
11	The number of countries who manage the largest satellite system is:	A. 3 B. 24 C. 126 D. 200
12	Electron volt is the unit of.	A. Potential difference B. Energy C. Resistance D. Capacitance
13	In radioactive decay, the new element which is formed due to the disintegration of original element is called	A. element B. daughter element C. parent element D. none of these
14	In magnet-coil experiment, emf can be produced by	A. Keeping the coil stationary and moving the magnet B. Keeping the magnet stationary and moving C. Relative motion of the loop and magnet D. Any one of above E. All above
15	The most common source of alternating voltage is:	A. Motor B. Transformer C. AC generator D. Both (A) and (C) E. Both (A) and (B)
16	The field in which work done is moving body between two points depends upon the path followed is called:	A. Conservative field B. Non-conservative field C. Electric field D. None of these
17	If R is gas constant for 1 gram mole, $C_p$ and $C_v$ are specific heat for a solid then	A. $C_p - C_v = R$ B. $C_p - C_v < R$ C. $C_p - C_v = 0$ D. $C_p - C_v > R$
18	A body moves a distance of 10 m along a straight line under the action of a force of 5 N and work done is 25J. The angle which the force makes with the direction of motion will be	A. $60^\circ$ B. $90^\circ$ C. $30^\circ$ D. $0^\circ$
19	Number of supplementary units are	A. Three B. Two C. Seven D. Five
20	If the distance of separation between two charges is increased, the electrical potential energy of the system will	A. Increase B. Decrease C. May increase or decrease D. Remain the same