

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

Sr	Questions	Answers Choice
1	The three equation of motions are useful only for	A. linear motion with increasing acceleration B. line motion with uniform acceleration C. linear motion with zero acceleration D. linear motion with varying acceleration
2	The error may occur due to:	A. Negligence B. Faulty apparatus C. Inappropriate method D. all of these
3	When a bicycle is in motion but not pedaled, the force of friction exerted by the ground on the two wheels is such that it acts	A. In the backward direction on the front wheel and in the forward direction on the rear wheel B. In the forwards directions on the front wheel and in the backward direction on the rear wheel C. In the forward direction on both the wheels D. In the backward direction on both the wheels
4	An alpha particle has a charge of	A. +2e B. -2e C. -e D. +3e
5	Peak value of alternative current is:	A. one of its instantaneous value B. Equal to its RMS value C. The same as its peak-to-peak value D. Both (B) and (C) E. None of these
6	For the virtual image, option _____ is not correct:	A. $\frac{1}{p} = \frac{1}{f} - \frac{1}{q}$ B. $\frac{1}{f} = \frac{1}{p} - \frac{1}{q}$ C. $\frac{1}{p} = \frac{1}{p} - \frac{1}{f}$ D. $\frac{1}{p} = \frac{1}{f} + \frac{1}{q}$
7	INTELSAT operates at frequencies 4, 6, 11, 14 having unit of	A. KHz B. MHz C. GHz D. BHz
8	The branch of physics which concerned with the ultimate particles of which the universe is composed is known as	A. SolidState physics B. Particle Physics C. Nuclear Physics D. Atomic Physics
9	The electrons in the outermost shell of an atom are called	A. core electrons B. valence electrons C. high energy electrons D. none of them
10	If $F=0.04$ N and $X=4$ cm then $K=$	A. $1 \text{ Nm}^{-1}$ B. $2 \text{ Nm}^{-1}$ C. $3 \text{ Nm}^{-1}$ D. $4 \text{ Nm}^{-1}$
11	Momentum is a parameter associated with	A. wave motion B. particle motion C. neither wave nor particle motion D. none of these
12	The vast majority of solids are in the form of	A. amorphous structure B. polymeric structure C. crystalline structure D. all of them
		A. Voltmeter has a very high resistance B. Voltmeter has a very low resistance

13	Potentiometer is more sensitive than voltmeter, because	<p>resistance</p> <p>C. Potentiometer does not draw any current from a source of unknown potential difference</p> <p>D. Potentiometer is sensitive</p>
14	Internal friction of fluid is called	<p>A. Surface tension</p> <p>B. Viscosity</p> <p>C. Resistance</p> <p>D. Cohesive force</p>
15	Waves transport energy	<p>A. without transport energy</p> <p>B. with matter</p> <p>C. both of them</p> <p>D. none of them</p>
16	Units of impedance are	<p>A. Henry</p> <p>B. Ohms</p> <p>C. moh</p> <p>D. Watt</p>
17	A sheet of aluminium foil of negligible thickness is introduced between the plates of a capacitor. The capacitance of the capacitor	<p>A. Increases</p> <p>B. Decreases</p> <p>C. Remain unchanged</p> <p>D. Becomes infinite</p>
18	The ratio of average e.m.f in the coil to the time rate of change of current in the same coil is called	<p>A. Mutual induction</p> <p>B. Mutual inductance</p> <p>C. Capacitance</p> <p>D. Self inductance</p>
19	Unless stated otherwise, when we speak of A.C. meter reading, we usually mean:	<p>A. Peak value</p> <p>B. RMS value</p> <p>C. Instantaneous value</p> <p>D. Peak-to-peak value</p> <p>E. Both (A) and (C)</p>
20	An aircraft is moving with a velocity of $300 \text{ ms}^{-1}$ . If all the forces acting on it are balanced, then	<p>A. It still moves with the same velocity</p> <p>B. It will be just floating at the same point in space</p> <p>C. It will be fall down instantaneously</p> <p>D. It will lose its velocity gradually</p>