

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Tick the one which is not polymer solid:	A. Zirconia B. Polythene C. Nylon D. Synthetic rubber E. None of these
2	If an electron of charge 'e' is accelerated through a potential difference V., it will acquire energy	A. Ve B. V/e C. e/V D. 2Ve
3	The sum of positive and negative peak values is called:	A. Instantaneous value B. Peak value C. Rms valuie D. Peak-to peak-value E. None of these
4	The electric potential at the surface of an atomic nucleus (Z = 50) of radius 9.0×10^{-15} is	A. 9 x 10 ⁵ V B. 9 V C. 8 x 10 ⁶ V D. 80 V
5	Ethanol (alcohol) as a type of:	A. Electric fuel B. Bio fuel C. Nuclear fuel D. None of these
6	The value of the potential difference across the depletion region for the case of germanium is	A. 0.3 V B. 0.5 V C. 0.7 V D. 0.9 V
7	In the formula for finding the speed of waves in the spring, unit of m in Sln units is:	A. kg B. kg-meter C. kg/meter D. Meter/kg
8	The Boltzman constant has the value	A. 1.38 x 10 ⁻²³ JK ⁻¹ B. 1.28 x 10 ⁻²³ JK ⁻¹ C. 1.38 x 10 ⁻²⁶ JK ⁻¹ D. 1.28 x 10 ⁻¹ D. 1.28 x 10 ⁻¹ JK ⁻¹ -1JK ⁻¹ JK ⁻¹ JK ⁻¹
9	Which of the following medium/media can transmit both transverse and longitudinal waves:	A. Solids B. Liquids C. Gases D. All of them
10	By convention, torques producing clockwise rotation are taken as:	A. Positive B. Nagative C. Zero D. None of these
11	When a body moves with a constant speed in a circle:	A. No work is done on it B. No acceleration is produced in the body C. Velocity remains constant D. None of these
12	A car is turning around a corner at 10 m/sec as it travels along an arc of a circle. If value of centripetal acceleration is 10 m/sec ² in this case, find radius of the circular path:	A. 1 m B. 5 m C. 10 m D. 15 m
13	The total charge of any nucleus is given as	A. Ze ² B. Z ² e C. Z/e D. Ze
14	The force exerted on a conductor of length L, carrying current I when placed in a magnetic field B is given by	A. F=IB/L B. F= L x B/I C. F = IL x B

	D. F = IL . B
A digital system deals with quantities which has discrete values:	A. Two in number B. One in number C. Three in number D. Four in number E. None of these
The vertical component of velocity of a projectile during its motion is minimum	A. at the time of projection B. at the highest point C. just before hitting the plane of projection D. all of them
Nucleon means:	A. Only electrons B. Only neutrons C. Only protons D. Both (A) and (C) E. Both (B) and (C)
When body moves along a circular path with constant speed, it has an acceleration, which is always directed;	A. Along the tangent B. Towards the centre C. Away from the centre D. None of them
No spark plug is needed in	A. petrol engine B. diesel engine C. both of them 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
	The vertical component of velocity of a projectile during its motion is minimum Nucleon means: When body moves along a circular path with constant speed, it has an acceleration, which is always directed; No spark plug is needed in