

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	At the present time, the main frontiers of fundamental science are	A. 2 B. 3 C. 4 D. 5
2	Light waves are	A. Transverse waves B. Longitudinal waves C. Compressional D. None of them wave
3	The length of rotating vector (on a certain scale) represents the:	A. Peak value of alternating quantity B. RMS value of alternating quantity C. Instantaneous value of alternating quantity D. Either (B) or (C) E. Either (A) or (B)
4	Equal charges are given to two spheres of different radii. The potential will	A. Be more on the smaller sphere B. Be more on the bigger sphere C. Be equal on both the sphere D. Depend on the nature of the material of the sphere
5	A simple pendulum consists of a	A. small light bob B. small heavy bob C. big light bob D. big heavy bob
6	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
7	Energy required by an electron revolving in certain orbit to jump to an excited state is called:	A. lonization energy B. lonization potential C. Excitation energy D. Excitation potential E. None of these
8	Velocity is a	A. scalar quantity B. vector quantity C. constant quantity D. none of them
9	The vector representation of force experience give the direction of	A. magnetic field B. current C. length of conductor D. force
10	The expression for restoring force is	A. F=ma B. F=kx C. F= -kx D. Kx=ma
11	The body oscillates due to accelerates and overshoots the rest position due to,:	A. Applied force, inertial B. Restoring force, friction C. Frictional force, inertial D. Restoring force, inertial
12	In the forward biases situation, the current flowing across the p-n junction is a few.	A. amperes B. Milli amperes C. Micro amperes D. Pico amperes E. None of these
13	The current in LCR circuit will be maximum when <mark>ω</mark> is	A. As large as possible B. Equal to natural frequency of LCR system
14	A body with frequency would complete one vibration in:	A. f seconds B. 1/f seconds C. 1 second D. f ² second

15	In RLC series circuit, resonance occurs when	A. X _{L > Xc} B. X _{L < Xc} C. X _{L = Xc} D. None of these
16	One electron volt is equal to	A. 1.6 x 1019eV B. 6.25 x 1018 eV C. 1.6 x 1018 eV D. 6.25 x 1019eV
17	A hollow insulated conduction sphere is given a positive charge of 10 μ C. What will be the electric field at the centre of the sphere if its radius is 2 meters?	A. Zero B. 5 <byu< b=""> </byu<> C m ⁻² C. 20 <byu></byu> C m ⁻² D. 8 <byu></byu> C m ⁻²
18	The example of reversible process is	A. an explosion B. changes occur suddenly C. slow compression of a gas D. all of them
19	A body is dropped from a tower with zero velocity, reaches ground in 4s. The height of the tower is about	A. 80 m B. 20 m C. 160 m D. 40 m
20	Which of the following is an example of SHM(in ideal situations)	A. Motion of simple pendulum B. Motion of horizontal spring man system C. Motion of violin string D. All of these