

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

Sr	Questions	Answers Choice
1	The angle of deflection of coil can be measured by the	A. one method B. three method C. two method D. none of these
2	When a stress changes length, it is called the	A. compressional stress B. tensile stress C. shear stress D. any one of them
3	When radioactive nucleus emits a $\beta$ -particle, the proton-neutron ratio	A. decrease B. increase C. same D. none of these
4	In the equation E=mc <sup>2</sup> value of c is?	A. 186000 miles per hour B. 186000 miles per sec C. 3 X 10 <sup>8</sup> m/sec D. Both A and C E. Both B and C
5	Physics deals with the study of	A. Matter B. Energy C. Both of them D. Human Body
6	When a platinum wire is heated, it appears orange red at	A. 500 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°C</span> B. 900 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°C</span> C. 1100 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°C</span> D. 1300 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°C</span>
7	In case of constructive interference of two waves, the amplitude of the resultant wave is either of the waves	A. Greater than B. Equal to C. Smaller than D. None of these
8	When a nucleus emits an alpha particles, its charge number decreases by	A. 3 B. 2 C. 6 D. 5
9	Unit vector is used to specify:	<ul><li>A. Magnitude of a vector</li><li>B. Dimensions of a vector</li><li>C. Direction of a vector</li><li>D. Position of a vector</li></ul>
10	Swimming becomes possible because oflaw of motion:	A. First B. Second C. Third D. None of these
11	If the distance between two charges is doubled, the force between them will become	A. Double B. Half C. Three times D. One fourth E. One third
12	An L-R circuit has R = 10 $\Omega$ and L = 2 H. If 120 V, 60 Hz A.C. voltage is applied, then current in the circuit will be	A. 0.32 A B. 0.16 A C. 0.48 A D. 0.80 A
13	Change in momentum is one second is called:	A. Impulse B. Force C. Energy D. Work

14	Alternating current can not be measured by D.C. ammeter because	A. A.C. can not pass through D.C. Ammeter B. A.C. changes direction C. Average value of current for complete cycle is zero D. D.C. Ammeter will get damaged
15	Acceleration of a body is positive, if the velocity of the body is	A. constant B. increasing C. decreasing D. none of them
16	Electromagnetic waves transport	A. Energy only B. Momentum only C. Both A and B D. None is correct
17	The dimension of linear inertia is:	A. MLT <sup>2</sup> B. ML <sup>0</sup> T <sup>-2</sup> C. ML <sup>0</sup> T <sup>0</sup> D. MLT <sup>-1</sup>
18	One radian is	A. Greater than one degree B. Less than one degree C. Equal to one degree D. None of these
19	Ohm established a relation between	A. voltage and resistance B. voltage and charge C. voltage and current D. voltage resistance and charge
20	If the amplitude of sound is doubled and the frequency reduced to one-fourth, the intensity of sound at the same point will be	A. Increasing by a factor of 2 B. Decreasing by a factor of 2 C. Decreasing by a factor of 4 D. Unchanged