

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	A 120 m long train is moving in a direction with speed 20 m/s. A train B moving with 30 m/s in the opposite direction and 130 m long crosses the first train in a time	A. 6 s B. 36 s C. 38 s D. None of these
2	1 gm-cm ⁻³ is equal to	A. 10 ³ kg-m ⁻³ B. 10 ⁻³ kg-m ⁻³ C. 1kg-m ⁻³ D. 10 ⁶ kg-m ⁻¹
3	Angular frequency 'W is basically a characteristics of	A. linear motion B. circular motion C. both of them D. none of them
4	When two spherical conducting balls at different potentials are joined by a metallic wire, after some time:	A. Both the conductors are at the same potential<o:p></o:p> B. Potential difference across the conductors remain constant<o:p></o:p> C. Potential difference across the conductors becomes zero<o:p></o:p> D. Both (A) and (B)<o:p></o:p> E. Both (A) and (B)<o:p></o:p> E. Both (A) and (C)<o:p> /b></o:p>
5	A body with frequency would complete one vibration in:	A. f seconds B. 1/f seconds C. 1 second D. f ² second
6	At resonance, the phase angle for RLC series resonance circuit equals	A. 0 ° B. 90 ° C. 180 ° D. 270 °
7	When a force is applied on a body, several effects are possible Which of the following effect could not occur?	A. the body rotates B. the body speeds up C. the mass of the body decreases D. the body changes its direction
8	What is frequency of radio waves transmitted by a station, if the wavelength of those waves is 300 m?	A. 1 MHz B. 10 Hz C. 1 GHz

		D. 100000 112
9	The magnitude of induced emf depends upon the:	A. Rate of decrease of magnetic field B. Rate of change of magnetic field C. Rate of increase of magnetic flux D. Constancy of magnetic field E. None of these
10	Scalar product is also called:	A. Cross product B. Dot product C. Product scalar D. <div>Product vector</div>
11	The total charge of any nucleus is given as	A. Ze ² B. Z ² e C. Z/e D. Ze
12	Longitudinal waves are also called:	A. Congressional waves B. Transverse waves C. Radio waves D. None of them
13	In an inelastic collision between two bodies, following is reserved.	A. Energy B. Both A and B C. Momentum D. None
14	The vector is space has:	A. One Component B. Two Components C. Three Components D. Non of these
15	When a dielectric material is introduced between the plates of a charged condenser the electric field between the plates	A. Decreases B. Increases C. No change D. May increase or decresase
16	For an atom having atomic number Z and atomic weight A, the charge on the nucleus is	A. A - Z B. A + Z C. Z D. A
17	Centripetal acceleration is also called acceleration:	A. Tangential B. Radial C. Angular D. None of them
18	Unit of impulse in	A. Newton B. Kg m C. Kg m/s D. Joule
19	The wave motion set up in any medium depends upon:	A. Elasticity B. Inertia C. Density D. All of these
20	The waves which propagate out in the space due to oscillations of electric and magnetic fields are called:	A. Mechanical waves B. Electromagnetic waves C. Matter waves D. All of them

D. 100000 Hz