

ECAT Pre General Science MCQ's Test For Physics Full Book

Sr	Questions	Answers Choice
1	Fog droplets are suspended in air when their weight is balanced by:	<p>A. Force of gravity B. Upward trust due to air C. Surface tension D. None of these</p>
2	The mechanics, which deals with the objects moving with velocities approaching that of light is called:	<p>A. Relativistic mechanics B. Wave mechanic C. Quantum mechanics D. Statics</p>
3	When quarter of a cycle is completed, the phase of vibration is:	<p>A. 90° B. 180° C. 45° D. 360°</p>
4	A capacitor is charged with a battery and then it is disconnected. A slab of dielectric is now inserted between the plates, then	<p>A. The charge in the plates reduces and potential difference increase B. Potential difference between the plates increase, stored energy decreases and charge remains the same C. Potential difference between the plates decreases and charge remains unchanged D. None of the above</p>
5	The whole structure obtained by the repetition of unit cells is called:	<p>A. Crystal lattice B. Amorphous solid C. Polymeric solid D. Polyesterne E. None of these</p>
6	The waves which propagate through the oscillations of material particles are known as:	<p>A. Mechanical waves B. Electromagnetic waves C. Any of them D. None of them</p>
7	Which of the following is an example of a S.H.M?	<p>A. motion of a projectile B. motion of a train along a circular path C. motion of swing D. electrons revolving sound the nucleus</p>

8	The space around the earth in which its gravitational force acts on a body is called	A. Electric Field B. Gravitational field C. Magnetic field D. Conservative field
9	Tick the conservative force	A. Tension in a string B. Air resistance C. Elastic spring D. Frictional force
10	1 amu is equal to	A. 1.66×10^{-24} kg B. 1.66×10^{-19} kg C. 1.66×10^{-34} kg D. 1.66×10^{-27} kg
11	A ball is dropped from a height of 4.2 meters. To what height it will rise if there is no loss of KE after rebounding?	A. 4.2 m B. 8.4 C. 12.6 D. None of these
12	When the charged particle is projected at right angles to the field, then experienced by it will be:	A. Maximum B. Zero C. qvB D. Both (A) and (B) E. Both (A) and (C)
13	When three identical bulbs of 60 watt, 200 volt rating are connected in series to a 200 volt supply, the power drawn by them will be	A. 180 watt B. 10 watt C. 20 watt D. 60 watt
14	In vibrational motion(SHM)	A. P.E remains conserved B. Average K.E remain constant C. Neither P.E nor K.E remains constant D. Total energy remains constant
15	The whole shape of the black body spectrum for all wavelengths was explained by the formula proposed by	A. Max plank B. Newton C. Einstein D. J.J. Thomson
16	A current of 1 ampere is passing through a conductor. The charge passing through it in half a minute s	A. One coulomb B. 0.5 coulomb C. 30 coulombs D. 2 coulombs E. None of these
17	Glycerin has viscosity _____ the viscosity of water:	A. More than B. Equal to C. Less than D. None of these
18	In the same medium, velocity of the wave:	A. Goes on increasing B. Remains constant C. Goes on decreasing D. None of these
19	Beta particles are	A. hydrogen nuclei B. helium nuclei C. electrons D. photons
20	A 60 W bulb operates on 220 V supply. The current flowing through the bulb is	A. $11/3$ A B. 3 A C. $3/11$ A D. 6