

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Essential characteristic of equilibrium is	<p>A. Momentum equal to zero B. Acceleration equal to zero C. Kinetic energy equal to zero D. Velocity equal to zero</p>
2	When resistance of a current carrying wire increases due to rise in temperature, the drift velocity of electrons:	<p>A. Decreases</p> <p>B. Increases</p> <p>C. Remains the constant</p> <p>D. Either of these</p> <p>E. None of these</p>
3	Two satellites are to be launched into space from the surface of earth satellite 1 has mass 10 kg and volume 1500 cm ³ . While satellite 2 has mass 5 kg and volume 1000 m ³ . Assume the required escape velocities of satellite 1 and satellite 2 are v_1 and v_2 , respectively. The relation between v_1 and v_2 is.	<p>A. Relation depends on the launch B. $v_1 > v_2$ C. $v_1 = v_2$ D. $v_1 < v_2$</p>
4	Which of the following statements for an object in equilibrium is not true?	<p>A. The object must be at rest B. The object can be at rest C. The object is moving at constant speed D. The acceleration of the object is zero</p>
5	The maximum distance of body from mean position when body is executing SHM is called	<p>A. Time period B. Displacement C. Amplitude D. Frequency</p>
6	Inertial frame of references are those frame of references which are moving with	<p>A. increasing velocity B. decreasing velocity C. constant velocity D. all of them</p>
7	Light waves are	<p>A. Transverse waves B. Longitudinal waves C. Compressional D. None of them wave</p>
8	The appearance of colours in the soap (or oil) film results from	<p>A. Dispersion B. Interference C. Reflection D. Refraction</p>
9	Centripetal force performs:	<p>A. Maximum work B. Negative work C. Positive work D. None of these</p>
10	Referring to above figure, due to change in current in the coil P, the change in magnetic flux:	<p>A. Is associated with coil P B. Is associated with coil S C. Causes an induced current in coil S D. All of these E. None of these</p>
11	Distance to nearest galaxy from earth is	<p>A. 10^{10} m B. 10^{15} m C. 10^{40} m D. 10^{25} m</p>

12	A change in position of a body from its initial position to its final position is known as	A. relative motion B. displacement C. distance D. acceleration
13	The strength of magnetic field at certain points around a wire depends upon:	A. Value of current passing B. Distance from the current element C. Color of the material D. Both (A) and (B) E. Both (B) and (C)
14	A body of mass 0.031 kg attached to one end of a spring of spring constant 0.3 N/m, then time period of spring mass system will be:	A. 1.5 sec B. 2.0 sec C. 2.3 sec D. 2.5 sec
15	Efficiency of carnot engine is independent of the	A. temperature of sink B. temperature of source C. nature of the working substances D. none of them
16	The resultant of two velocities 3 m/sec and 400 cm/sec making an angle 90° with each other is:	A. 20 m/sec B. 5 m/sec C. 3 m.sec D. None of these
17	The Phenomenon of generation of induced emf is called	A. Electrostatic induction B. Magnetic induction C. Electromagnetic induction D. Electric induction E. Both A and B
18	A p-n junction is formed when a crystal of silicon is growth in such a way that its one half is doped with trivalent impurity and the other half with a impurity from	A. 2nd group B. fourth group C. fifth group D. sixth group
19	The waves in which the particles of the medium have displacement along the direction of propagation of waves are called	A. longitudinal waves B. transverse waves C. non-mechanical waves D. none of them
20	Distance covered by a freely falling body in 2 sec will be	A. 4.9 m B. 19.6 m C. 29.2 m D. 44.1 m