

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

Sr	Questions	Answers Choice
1	For transmission of both transverse and longitudinal waves, we can use:	A. Solid B. Gas C. Plasma D. None of these
2	The current is measured in	A. volts B. watt C. ampere D. ohm
3	The energy required to charge a capacitor of $5\mu$ F by connecting D.C. source of 20 KV is	A. 10 KJ B. 5 KJ C. 2 KJ D. 1 KJ
4	At the present time, the main frontiers of fundamental science are	A. 2 B. 3 C. 4 D. 5
5	Which one of the following wave motions is transverse:	A. Wave motion produced in water when a piece of stone is thrown into it B. Pulling of weight hanging vertically with a spiral spring C. Both of these D. None of these
6	Work is always done on a body when:	A. A force acts on it B. It moves through certain distance C. None of A and B is correct D. Both A and B is correct
7	If a freely oscillating system is subjected to an external force, then	A. free vibrations will take place B. the body will move with its natural frequency C. forced vibrations will take place D. none of them
8	The motion of molecules in gases is:	A. Orderly B. Random C. Circular D. All of these
9	Current, voltage, resistance measuring circuit is connected with the galvanometer with the help of switch, known as	A. ON switch B. off switch C. function switch D. none of these
10	A condenser of capacity 50 $\mu$ F is charged to 10 V.The energy stored is	A. 1.25 x 10 <sup>-3</sup> J B. 3.75 x 10 <sup>-3</sup> J C. 2.5 x 10 <sup>-3</sup> J D. 5 x 10 <sup>-3</sup> J
11	Which of the following has the greatest coefficient of viscosity?	A. water B. gasoline C. honey D. tar
12	When a mass attached to a spring begins to move left or right from the equilibrium position, its P.E.:	A. Increases B. Decreases C. Remains constant D. None of these
13	Generally a temperature scale is established by using certain physical properties of a material which varies	A. nonlinearly with temperature B. linearly with temperature C. either of them D. none of them
14	Two bullets are fired simultaneously, horizontally and with different speeds from the same place. Which bullet will hit the ground first?	A. The faster one B. Depends on their mass C. The slower one D. Both will reach simultaneously
		A. spontaneously

15	Alfa , beta and gamma rays are emitted from a radio-active substance	B. when it is heated     C. when it is exposed to light     D. When it interacts with the other particle
16	The powers of tow electric bulbs are 100 W and 200 W. Both of them are joined with 220 V mains. The ratio of resistances of their filaments will be	A. 1:2 B. 2:1 C. 1:4 D. 4:1
17	The body oscillates due to accelerates and overshoots the rest position due to	A. Applied force, Inertia B. Restoring force, Friction C. Frictional force, Inertia D. Restoring force, Inertia
18	Density of oxygen is about 16 times that of hydrogen therefore if speed of hydrogen is x, then speed of oxygen.	A. Greater than x B. The same C. Less than x D. Depending upon the pressure of gases
19	If a charged spherical conductor of radius 10 cm has potential V at a point distance 5 cm from its centre, then the potential at a point distance 15 cm from the centre will be	A. 1/3 V B. 2/3 V C. 3/2 V D. 3V
20	In crystalline solids, atoms are held about their equilibrium positions depending upon the strength of:	A. Adhesive force B. Nuclear forces C. Inter atomic cohesive force D. Electromagnetic force E. None of these