

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

Sr	Questions	Answers Choice
1	While describing the motion of a simple pendulum, the frictional effects are	A. taken into account B. completely ignored C. partially ignored D. none of them
2	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
3	The force acting on a charge moving in a magnetic field	A. is perpendicular to the both magnetic field and direction of motion B. is proportional to the magnetic of charges C. vanishes when the motion is directly opposite to the direction of field D. all of the above
4	Ethanol (alcohol) as a type of:	A. Electric fuel B. Bio fuel C. Nuclear fuel D. None of these
5	A relationship between Gauss of magnetic induction and Tesla(T) is given by	A. $G = 10^{-3} T$ B. $G = 10^{-2} T$ C. $G = 10^{-4} T$ D. $G = 10^{-1} T$
6	If a given spring of spring constant k is cut into two identical segments, the spring constant of each segment is:	A. $k/2$ B. $2k$ C. $4k$ D. None of these
7	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
8	Such oscillations in which the amplitude decreases steadily with time, are called	A. resonance B. force oscillations C. large oscillations D. damped oscillations
9	Photoelectric effect takes place with a photon of:	A. Very high energy B. Very low energy C. Low energy D. High energy E. None of these
10	Through which character we can distinguish the light waves from sound waves	A. Interference B. Refraction C. Polarization D. Reflection
11	Examples of moderators used in a fission reactor is/are:	A. Water B. Heavy water C. Carbon D. Hydrocarbon E. All of these
12	A flywheel accelerates from rest to an angular velocity of 7 rad/sec in 7 seconds. Its average acceleration will be:	A. $49 \text{ rad/sec}^2$ B. $1 \text{ rad/sec}^2$ C. $0.16 \text{ rev/sec}^2$ D. Both A and C E. Both B and C
13	In Pakistan electricity is supplied for domestic use at 220 V, it is supplied at 110 V in USA. If the resistance of a 60 W bulb for use in Pakistan is R, the resistance of a 60 W bulb for use in USA will be	A. $2R$ B. $R/4$ C. $R/2$ D. R
14	Kirchhoff's first rule is also called:	A. Loop rule B. Thumb rule C. Point rule D. None of these

		D. Right hand rule E. None of these
15	Bernoulli's equation is the fundamental equation in fluid dynamics, which relates pressure to fluid	A. speed B. height C. none of them D. both of them
16	Unit vector is used to specify:	A. Magnitude of a vector B. Dimensions of a vector C. Direction of a vector D. Position of a vector
17	Micheal Faraday and joseph Henry belong respectively to:	A. USA and England B. England and France C. England and USA D. USA and France E. None of these
18	Glass is an example of	A. crystalline solid B. amorphous solid C. polymeric solid D. none of them
19	The smooth or steady streamline flow is known as	A. laminar flow B. turbulent flow C. both of them D. none of them
20	Acceleration of a body at any particular instant during its motion is known as	A. average acceleration B. uniform acceleration C. instantaneous acceleration D. all of them