

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The magnetic field inside a solenoid can be increased by:	A. Increasing n B. Decreasing I C. Increasing I D. By using iron core within solenoid E. All correct except (B)
2	In magnet-coil experiment, emf can be produced by:	A. Keeping the coil stationary and moving the magnet B. Keeping the magnet stationary and moving the coil C. Relative motion of the loop and magnet D. Any one of above E. All above
3	The pressure of gas everywhere inside the vessel will be the same provided the gas is of	A. Non-uniform density B. uniform density C. high density D. low density
4	The electrons in the outermost shell of an atom are called	A. core electrons B. valence electrons C. high energy electrons D. none of them
5	The force exerted by the fluid in a hydraulic pump on the piston is 10 cm^2 , the fluid pressure on the piston is, in N/cm^2	A. 20 B. 200 C. 2000 D. 20,000
6	A field in which the work done is moving a body along closed path is zero is called:	A. Nuclear field B. Conservative field C. Gravitational field D. Non-conservative field
7	Which one of the following causes production of heat when current is set up in a wire?	A. Fall of electrons from higher orbits to lower orbits B. Inter-atomic collisions C. Inter-electron collisions D. Collisions of conduction electron with atoms
8	If the radius of first orbit of hydrogen atom is 0.53 \AA the radius of second orbit will be	A. 2.120 \AA B. 0.212 \AA C. 21.2 \AA D. 0.14 \AA
9	The working of all DC electric meters (galvanometers, ammeters and voltmeters) depends upon	A. Heating effect of current B. Chemical effect of current C. Magnetic effect of current D. Electromagnetic effect of current
10	The work done in moving a body between two points in a conservative field is independent of the	A. Direction B. Force applied C. Path followed by the body D. Power
11	An oscillating body oscillates due to:	A. Applied force B. Restoring force C. Frictional force D. None of these
12	In the above figures, tell which set is graphs shows that a body is moving uniform velocity:	A. (i) and (ii) B. (ii) and (iii)

		<p>C. (i) and (iii) D. (ii) and (iv)</p>
13	The short distance between two points direction from its initial point to final point is called:	<p>A. Velocity B. Displacement C. Speed D. Distance</p>
14	Binding energy per nucleus is	<p>A. greater for heavy nucleus B. least for heavy nucleus C. greatest for light nuclei D. decreases for medium weight nuclei</p>
15	A projectile on its path gets divided into two pieces at its highest point. Which is true?	<p>A. Momentum increases B. Momentum decreases C. Kinetic energy increases D. Kinetic energy decreases</p>
16	Bodies falling freely under gravity provide good example of motion under	<p>A. non-uniform acceleration B. uniform acceleration C. variable acceleration D. increasing acceleration</p>
17	Melting point of ice	<p>A. Increases with increasing pressure B. Decreases with increasing pressure C. Is independent of pressure D. Is proportional to pressure</p>
18	INTELSAT operates at frequencies 4, 6, 11, 14 having unit of	<p>A. KHz B. MHz C. GHz D. BHz</p>
19	Wave length of light, on the average, is given by:	<p>A. 10^{-14} m B. 10^{-10} m C. 10^{-6} m D. 10^{-4} m</p>
20	The portion of the water above its mean level forms a:	<p>A. Crest B. Trough C. Both A and B D. None of these</p>