

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

Sr	Questions	Answers Choice
1	A fuse wire is having 5 ampere current rating. What is the peak value of current it can have?	A. 0.7074 A B. 7.07 A C. 0.0707 A D. 7.707 A
2	Acceleration of a body is positive, if the velocity of the body is	A. constant B. increasing C. decreasing D. none of them
3	A 2 kg block is held 1 m above floor for 50 seconds. The work done is:	A. Zero B. 10.2 J C. 100 J D. 980 J
4	Fire fighters have a jet attached to the head of their water pipes in order to head of their water pipes in order to	A. Increase the mass of water flowing per second B. Avoid wastage of water C. Increase the velocity of water flowing out D. Increase the volume of water flowing per second
5	Spectrum represents the number of component colours present in certain light in terms of:	A. Wavelength B. Frequency C. Energy D. Both (A) and (B) E. All of these
6	According to slok's law, drag force depends on	A. Radius of the spherical body     B. Terminal velocity of body     C. Coefficient of viscosity     D. All of above
7	Compton studied the scattering of x-rays by loosely bound electrons from:	A. NaCl crystal B. Graphite crystal C. Zirconia D. Copper crystal E. None of these
8	The dimensions of work	A. [MLT <sup>-1</sup> ] B. [MLT <sup>-2</sup> ] C. [ML <sup>-2</sup> T <sup>-2</sup> D. [MLT]
9	In the force applied is parallel to the direction of motion, then work done is:	A. Maximum B. Minimum C. Zero D. None of these
10	Referring to above figure, due to change in current in the coil P, the change in magnetic flux	A. Is associated with coil P B. Is associated with coil S C. Causes and induced current in coil S D. All of these E. None of these
11	The transition from solid to liquid is actually from:	A. Order to disorder B. Disorder to order C. Order to order D. Disorder to disorder E. None of these
12	If R is gas constant for 1 gram mole, $C_p$ and $C_v$ are specific heat for a solid then	A. C <sub>p</sub> - C <sub>v</sub> = R B. C <sub>p</sub> - C <sub>v &lt; R</sub> C. C <sub>p</sub> - C <sub>v = 0</sub> D. C <sub>p</sub> - C <sub>v &gt; R</sub>
13	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 (D)
14	The value of the input resistance of OP-AMP is of the order of	A. few ohms B. few hundred ohms C. several kilo ohms D. several maga ohms
15	Rocket engines lift a rocket from the earth surface, because hot gas with high velocity	A. Push against the air B. React against the rocket and push it up C. Heat up the air which lifts the rocket D. Push against the earth
16	The voltage increases linearly with	A. time B. velocity C. acceleration D. torque
17	Significant figures in 0.2020 are:	A. Two B. Three C. Four D. Five
18	Photoelectrons are emitted when ultraviolet light falls on:	A. Casium B. Silver C. Potassium D. Any of these E. None of these
19	Light year is a unit of:	A. Time B. Distance C. Velocity D. Intensity of light
20	If volume of wire is 'AL' and there are 'n' numbers of charge carriers per unit volume, then the total number of charge carriers are	A. n/AL B. Al/n C. nAL D. nA/L