

ECAT Physics Online Test

Sr	Questions	Answers Choice
1	One newton is a force that produces an acceleration of 0.5 m/sec^2 in a body of mass:	A. 2 kg B. 3 kg C. 4 kg D. 8 kg
2	Root out the conventional source of energy:	A. Energy from biomass B. hydroelectric energy C. Geothermal energy D. None of these
3	The example/s of non-electrical energy to electrical is/are:	A. Chemical energy B. Mechanical energy C. Heat energy D. Both (A) and (B) E. All of these
4	On the power stroke, a spark fires the mixtures causing a rapid increase in pressure and temperature and the burning mixture expands	A. adiabatically B. isothermally C. isochorically D. isobarically
5	A particle of mass 5.0 mg moves with a speed of 8.0 m/s. Its de-Broglie wavelength is	A. 1.66 m B. $1.66 \times 10^{-10} \text{ m}$ C. $1.66 \times 10^{-29} \text{ cm}$ D. $1.66 \times 10^{-29} \text{ m}$
6	The magnitude of the displacement is a line from initial position to final position which is	A. straight B. curved C. either be curved or straight D. none of them
7	In the region surrounding a current carrying wire:	A. A magnetic field is setup B. The lines of force are elliptical C. Direction of lines of forces depends upon direction of current

		D. Both (A) and (C) E. All of these
8	Resistor is a device which convert electric energy to	A. Heat energy B. Chemical energy C. Elastic energy D. All of the above
9	A coil of constant area is placed in a constant magnetic field. An induced current is produced in the coil when	A. The coil is distorted B. The coil is rotated C. The coil is neither distorted nor rotated D. Both A and B E. None of these
10	Amorphous solids are also more like	A. crystalline solids B. gases C. liquids D. any one of them
11	As compared to the distance measured by an observer on Earth, the distance from Earth to a star measured by an observer in a moving spaceship would seem:	A. Smaller B. Leger C. Same D. Much larger E. None of these
12	The temperature at which the speed of sound becomes double as was at 27°C is	A. 273°C B. 0°C C. 927°C D. 1027°C
13	The solids are classified as:	A. Metals B. Crystalline C. Amorphous D. Polymeric E. All except (A)
14	The discuss used by athlete has a mass of 1 kg, its weight in newton is	A. 9.8 N B. 80 N C. 98 N D. 100 N
15	A dirty carpet is to be cleaned by heating. This is in according with_____law of motion.	A. First B. Second C. Third D. None of these
16	Ethanol (alcohol) as a type of:	A. Electric fuel B. Bio fuel C. Nuclear fuel D. None of these
17	The value of current gain of n-p-n transistor is of the order of	A. tens B. hundreds C. thousands D. ten thousands
18	Which of the following diode is used for the detection of light	A. photo diode B. light emitting diode C. photo voltaic cell D. all of them
19	Electric generators which convert mechanical energy into	A. solar energy B. thermal energy C. kinetic energy D. electrical energy
20	The SI unit of magnetic induction is	A. Weber B. Weber/meter C. Henry D. Tesla