

## Physics ECAT Pre Engineering Online Test

Sr	Questions	Answers Choice
1	Moment of linear momentum is called.	A. Moment arm B. Moment of inertia C. Inertia D. Angular momentum
2	Formula for calculating moment of inertia of the bodies of one pair is same. Tick the answer.	A. Disc, sphere B. sphere, hoop C. Thin rod, hoop D. Hoop, disc
3	Final velocity of a hoop is _____ the final velocity of a disc having same mass and radius on coming down an inclined plane.	A. Greater than B. smaller than C. Equal to D. None of these
4	The tidal energy is produced due to rotation of Earth relative to:	A. Moon B. Sun C. Oceans D. Water
5	Most of the geysers occur in:	A. Volcanic regions B. Magnetic regions C. Northern region D. None of these
6	A solar cell is made from:	A. Iron B. Silicon C. Germanium D. Copper
7	The amount of coal used since 1945 up till now as compared to that used in the whole of history before that is	A. Much more B. Very small C. No amount at all D. None of these
8	The tidal energy is due to gravitational pull of :	A. sun B. moon C. Mars D. None of these
9	A solar cell converts energy of the Sun into:	A. Heat energy B. Magnetic energy C. Light energy D. Sound energy
10	The ultimate source of money sources of energy is:	A. Sun B. Air C. Water D. Petroleum
11	If work is done at the rate of 2 k j per second, then total work done is half an hour will be:	A. 0.5 Kwn B. 2 Kwh C. 1 Kwh D. None of these
12	Teh consumption of energy by a 1000 watt heater in half an hour is:	A. 5 Kwh B. 0.5 Kwh C. 2.5 Kwh D. 3.2 Kwh
13	The consumption of energy by a 60 W bulb in 2 minutes is:	A. 2 watt-hour B. 120 watt-hour C. 30 watt-hour D. None of these
14	The power of an electric generating station is expressed in:	A. Kilo Jule B. Kilowatt-hour C. Kilo watt D. Watt
15	Power is a :	A. Vector quantity B. Base quantity C. Scalar quantity D. None of these

16	Watt x second is unit of:	A. Force B. Work C. Power D. None of these
17	Which of the following is not a unit of power:	A. J-sec B. Watt C. N m/sec D. Horsepower
18	The value of escape velocity of Earth planet comes out to be:	A. 11 m/sec B. 11 km/sec C. 11 km/hour D. 11 cm/sec
19	When a falling body hits ground, its KE changes to _____ energy.	A. Potential B. Chemical C. Mechanical D. sound and heat
20	The commercial unit of electrical energy is :	A. K Watt B. KWH C. Horse power D. Joule
21	The types of mechanical energy is/are:	A. Kinetic energy B. Potential energy C. Both of these D. None of these
22	Escape velocity from surface of Moon as compared to that from Earth surface is:	A. Greater B. Smaller C. Equal D. None of these
23	When two protons are brought are brought closer potential energy of both of them:	A. Increases B. Decreases C. Remains same D. None of these
24	The energy stored in the water of the dam is:	A. Electric energy B. Kinetic energy C. Potential energy D. None of these
25	Work-energy principle states that work done on the body by applied force is equal to change in:	A. Potential energy B. Kinetic energy C. Linear momentum D. None of these
26	When velocity of moving body is doubled, the quantity which is also doubled is its:	A. K.E. B. Acceleration C. Momentum D. P.E.
27	Energy stored in the spring of a watch is called	A. Potential energy B. Kinetic energy C. Nuclear energy D. Elastic potential
28	During the upward motion of the projectile, the vertical component of velocity.	A. Decreases B. Increases C. Remains constant D. None of these
29	If $m$ means mass of gases ejected per second from a rocket and $v$ shows the change in velocity, then $mv$ is named as:	A. Force B. Energy C. work D. impulse
30	Change in momentum is one second called.	A. Impulse B. Force C. Energy D. Work