

ECAT Pre General Science Physics Chapter 4 Work and Energy

Sr	Questions	Answers Choice
1	Escape velocity from surface of Moon as compared to that from Earth surface is:	A. Greater B. Smaller C. Equal D. None of these
2	Work is a Quantity	A. Vector B. Scalar C. Non-physical D. None of these
3	If force and displacement are in opposite direction, the work done is taken as	A. Positive work B. Negative work C. Zero work D. Infinite work
4	Work has the dimension as that of:	A. Torque B. Angular momentum C. Linear momentum D. Power
5	The work done on the body will be zero if:	A. No force is applied on the body B. Force is applied but no displacement C. Angle between F(force) and d(displacement) is 90° D. All of these are correct
6	The power of an electric generating station is expressed in:	A. Kilo Jule B. Kilowatt-hour C. Kilo watt D. Watt
7	A boy pulls a toy car through a distance of 5 m by applying a force of 0.5 N, which makes an angle of 60° with the horizontal. The work done by the boy is:	A. 1.25 J B. 12.5 J C. 125 J D. None of these
8	When a force of 0.5 N displaces a body through a distance of 2m in the direction of force, the work done is	A. 0.5 J B. 2 J C. 0.25 J D. 1 J
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	Most of the geysers occur in:	A. Volcanic regions B. Magnetic regions C. Northern region D. None of these
11	When a falling body hits ground, its KE changes to _____ energy.	A. Potential B. Chemical C. Mechanical D. sound and heat
12	Tick the conservative force	A. Tension in a string B. Air resistance C. Elastic spring D. Frictional force
13	If we draw a graph between d (along x-axis) and F (along y-axis) and get a straight line horizontal to x-axis, then area under this straight line represents:	A. Power B. Work C. Pressure D. None of these

14	Work done along a closed path in a gravitational field is:	A. Maximum B. Minimum C. Zero D. Unity
15	The commercial unit of electrical energy is :	A. K Watt B. KWH C. Horse power D. Joule
16	The work done by a force, keeping an object in circular motion with constant speed is:	A. Zero J B. 1 J C. 0.1 J D. 0.01 J
17	Maximum work is done when force and displacement are	A. Parallel B. Antiparallel C. Perpendicular D. Both a and b
18	Work is a:	A. Scalar quantity B. Vector quantity C. Base quantity D. None of these
19	Work done is maximum when angle between force and displacement is:	A. 0° B. 90° C. 180° D. None of these
20	The tidal energy is produced due to rotation of Earth relative to:	A. Moon B. Sun C. Oceans D. Water