

Physics ECAT Pre Engineering Chapter 4 Work and Energy

Sr	Questions	Answers Choice
1	Work has the dimension as that of:	A. Torque B. Angular momentum C. Linear momentum D. Power
2	The space around the earth within which it expects a force of attraction on other bodies is known as:	A. Nuclear field B. Conservative field C. Electric field D. Gravitational field
3	The work done by a force keeping an object in circular motion with constant speed is:	A. Zero J. B. 0.1 J C. 1 J D. 0.01 J
4	SI Unit of work is	A. Nm^{-1} B. Joule C. Nms D. Both a and b
5	A body moves a distance of 10 m along a straight line under the action of a force of 5 N and work done in 25J. The angle which the force makes with the direction of motion will be	A. 60° B. 90° C. 30° D. 0°
6	When a falling body hits ground, its KE changes to _____ energy.	A. Potential B. Chemical C. Mechanical D. sound and heat
7	Work is product of:	A. Force and velocity B. Heat and energy C. Force and displacement D. None of these
8	Which of the following types of force can do no work on the particle on which it acts	A. Frictional force B. Gravitational force C. Electric force D. Centripetal force
9	The energy stored in the water of the dam is:	A. Electric energy B. Kinetic energy C. Potential energy D. None of these
10	Work done is maximum when angle between force and displacement is:	A. 0° B. 90° C. 180° D. None of these

11	The work done by a force, keeping an object in circular motion with constant speed is:	B. 1 J C. 0.1 J D. 0.01 J
12	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
13	Work done by the force of friction is always	A. Positive B. Zero C. Negative D. Maximum
14	A body moves a distance of 10 m along a straight line under the action of a force of 5 N. If the work done is 25 J, the angle which the force makes with the direction of motion of a body is:	A. 0° B. 30° C. 60° D. 90°
15	The work performed on an object does not depend on	A. Force applied B. Angle at which force is inclined to the displacement C. Initial velocity of the object D. Displacement
16	The space around the earth in which its gravitational force acts on a body is called	A. Electric Field B. Gravitational field C. Magnetic field D. Conservative field
17	Tick the conservation force:	A. Tension in a string B. Air resistance force C. Elastic spring D. Frictional force
18	The commercial unit of electrical energy is :	A. K Watt B. KWH C. Horse power D. Joule
19	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
20	When a wall is pushed by a person very strongly, he has done:	A. Maximum work B. Zero work C. Positive work D. Negative work