

ECAT Pre General Science Physics Chapter 4 Work and Energy

Sr	Questions	Answers Choice
1	The work done moving a body between two points in a conservation field is independent of the:	A. Direction B. Force applied C. Path followed by the body D. Power
2	A field in which the work done is moving a body along closed path is zero is called:	A. Nuclear filed B. Conservative field C. Gravitational field D. Non-conservative field
3	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
4	The types of mechanical energy is/are:	A. Kinetic energy B. Potential energy C. Both of these D. None of these
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 is 25J. The angle which the force makes the direction of motion will be:	A. 60

		D. Elastic potential
10	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.
11	Work done by the force of friction is always	A. Positive B. Zero C. Negative D. Maximum
12	SI Unit of work is	A. Nm ⁻¹ B. Joule C. Nms D. Both a and b
13	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
14	Work has a dimension as that of:	A. Torque B. Angular momentum C. Linear momentum D. Power
15	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
16	Work done is lowering the bucket into the well is:	A. Zero B. Positive C. Negative D. None of these
17	The tidal energy is produced due to rotation of Earth relative to:	A. Moon B. Sun C. Oceans D. Water
18	Tick the conservation force:	A. Tension in a string B. Air resistance force C. Elastic spring D. Frictional force
19	A body moves a distance of 10 m among 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