

ECAT Pre General Science Physics Chapter 4 Work and Energy Online Test

Sr	Questions	Answers Choice
1	When the body is moves against the force of friction on a horizontal plane, the work done by the body is:	A. Positive B. Negative C. Zero D. None of these
2	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
3	A two Kg block is held 1 m above the floor for 50 seconds, the work done is:	A. Zero B. 10.2 J C. 100 J D. 980 J
4	Work done is lowering the bucket into the well is:	A. Zero B. Positive C. Negative D. None of these
5	The angle between centripetal force and displacement of the body moving in a circle is:	A. 0° B. 90° C. 180° D. None of these
6	Tick the conservation force:	A. Tension in a string B. Air resistance force C. Elastic spring D. Frictional force
7	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
8	The field in which work done in moving a body between two points depends upon the path followed is called:	A. Conservative field B. Non-conservative field C. Electric field D. None of these

9	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:	<p>sans-serif; background-image: initial; background-position: initial; background-size: initial; background-repeat: initial; background-attachment: initial; background-origin: initial; background-clip: initial;">°</p> <p>C. 30°</p> <p>D. 0°</p>
10	The space around the earth within it exerts a force of attraction on other bodies of known as:	<p>A. Nuclear field</p> <p>B. Conservative field</p> <p>C. Electric field</p> <p>D. Gravitational field</p>
11	Work done is maximum when angle between force and displacement is:	<p>A. 0°</p> <p>B. 90°</p> <p>C. 180°</p> <p>D. None of these</p>
12	Work has the dimension as that of:	<p>A. Torque</p> <p>B. Angular momentum</p> <p>C. Linear momentum</p> <p>D. Power</p>
13	If force and displacement are in opposite direction, the work done is taken as:	<p>A. Positive work</p> <p>B. Negative work</p> <p>C. Zero work</p> <p>D. Infinite work</p>
14	The work performed on an object does not depend on:	<p>A. Force applied</p> <p>B. Angle at which force is inclined to the displacement</p> <p>C. Initial velocity of the object</p> <p>D. Displacement</p>
15	Work is always done on a body when:	<p>A. A force acts on it</p> <p>B. It moves through certain distance</p> <p>C. None of A or B is correct</p> <p>D. Both A and B is correct</p>
16	Work is a:	<p>A. Scalar quantity</p> <p>B. Vector quantity</p> <p>C. Base quantity</p> <p>D. None of these</p>
17	Tick the conservative force	<p>A. Tension in a string</p> <p>B. Air resistance</p> <p>C. Elastic spring</p> <p>D. Frictional force</p>

		D. Frictional force
18	A field in which the work done in moving a body along closed path is zero is called	A. Nuclear Field B. Conservative field C. Gravitational field D. Non-conservative field
19	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
20	The work done in moving a body between two points in a conservative field is independent of the	A. Direction B. Force applied C. Path followed by the body D. Power
21	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
22	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 with the direction of motion will be	A. 60° B. 90° C. 30° D. 0°
23	The Space around the Earth within which it exerts a force of attraction on other bodies is known as	A. Nuclear field B. Conservative field C. Electric field D. Gravitational field
24	Work done is maximum when angle between force and displacement is	A. 0° B. 90° C. 180° D. None of these
25	Work has the dimensions as that of	A. Torque B. Angular momentum C. Linear momentum D. Power
26	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
27	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
28	Work is always done on a body when	A. A force acts on it B. It moves through certain distance C. None of A or B is correct D. Both A and B are correct
29	Work is a	A. Scalar quantity B. Vector quantity C. Base quantity D. None of these
30	Which one is conservative force	A. Electric force B. Frictional force C. Normal force D. Air resistance