

ECAT Physics Chapter 4 Work and Energy

Sr	Questions	Answers Choice
1	The total work done in moving the body up and then down through the same height in a gravitational field is equal to:	A. mgh B. Its wight C. Weight X height D. Zero
2	The ultimate source of money sources of energy is:	A. Sun B. Air C. Water D. Petroleum
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	SI Unit of work is	A. Nm ⁻¹ B. Joule C. Nms D. Both a and b
5	In the force applied to parallel to the direction of motion, then the work done is:	A. Positive B. Negative C. Zero D. None of these
6	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
7	Maximum work is done when force and displacement are	A. Parallel B. Antiparallel C. Perpendicular D. Both a and b
8	Which force is not a conservative force?	A. Frictional force B. Gravitational force C. Electric force D. Elastic spring force
9	If force and displacement are in opposite direction, the work done is taken as:	A. Positive work B. Negative work C. Zero work D. Infinte work
10	Work is a Quantity	A. Vector B. Scalar C. Non-physical D. None of these
11	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
12	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
13	Work is a	A. Scalar quantity B. Vector quantity C. Base quantity D. None of these
14	Work done in lower and bucket into the well is:	A. Zero B. Positive C. Negative D. None of these
15	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
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16	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 force makes with the direction of motion of a body is:	A. 0 B. 30 C. 60 D. 90 D. 90