

Physics ECAT Pre Engineering Chapter 4 Work and Energy

Sr	Questions	Answers Choice
1	Work done on a body by gravity in lifting it up to certain height is	A. Maximum B. Minimum C. Zero D. Negative
2	Watt x second is unit of:	A. Force B. Work C. Power D. None of these
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	Work is always done on a body when:	A. A force acts on it B. It moves through certain distance C. None of A and B is correct D. Both A and B is correct
5	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
6	The field in which work done is moving 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
7	Maximum work is done when force and displacement are	A. Parallel B. Antiparallel C. Perpendicular D. Both a and b
8	Work has a dimension as that of:	A. Torque B. Angular momentum C. Linear momentum D. Power
9	Work done is maximum when angle between force and displacement is:	A. 0° B. 90° C. 180° D. None of these
10	Work has the dimension as that of:	A. Torque B. Angular momentum C. Linear momentum D. Power

11	A 100 kg car is moving at a speed of 10 m/sec and comes to rest after covering a distance of 50 m. the amount of work done against friction is:	A. $+5 \times 10^1 \text{ J}$ B. $+5 \times 10^2 \text{ J}$ C. $+5 \times 10^3 \text{ J}$ D. $+5 \times 10^4 \text{ J}$
12	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° B. 90° C. 30° D. 0°
13	The ultimate source of money sources of energy is:	A. Sun B. Air C. Water D. Petroleum
14	Work has the dimensions as that of	A. Torque B. Angular momentum C. Linear momentum D. Power
15	Work is a:	A. Scalar quantity B. Vector quantity C. Base quantity D. None of these
16	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
17	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
18	Escape velocity from surface of Moon as compared to that from Earth surface is:	A. Greater B. Smaller C. Equal D. None of thes
19	Power is a :	A. Vector quantity B. Base quantity C. Scalar quantity D. None of these
20	Which force is not a conservative force:	A. Frictional force B. Gravitational force C. Electric force D. Elastic spring force