

Physics ECAT Pre Engineering Chapter 4 Work and Energy

Sr	Questions	Answers Choice
1	Work done is maximum when angle between force and displacement is	A. 0° B. 90° C. 180° D. None of these
2	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
3	Work done is maximum when angle between force and displacement is:	A. 0° B. 90° C. 180° D. None of these
4	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°

5	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
6	The energy stored in the water of the dam is:	A. Electric energy B. Kinetic energy C. Potential energy D. None of these
7	The amount of coal used since 1945 up till now as compared to that used in the whole of history before that is	A. Much more B. Very small C. No amount at all D. None of these
8	Energy stored in the spring of a watch is called	A. Potential energy B. Kinetic energy C. Nuclear energy D. Elastic potential
9	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. 2 J B. 0.25 J C. 1 J D. 0.5 J
10	Power is a :	A. Vector quantity B. Base quantity C. Scalar quantity D. None of these
11	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 weight C. Weight \times height D. Zero
12	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
13	Which one is conservative force	A. Electric force B. Frictional force C. Normal force D. Air resistance
14	Which force is not a conservative force:	A. Frictional force B. Gravitational force C. Electric force D. Elastic spring force
15	Work done is independent of path followed in _____	A. Gravitational field B. Magnetic field C. Electric field D. All of these
16	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
17	Most of the geysers occur in:	A. Volcanic regions B. Magnetic regions C. Northern region D. None of these
18	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
19	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°

the work done is 25 J, the angle which force makes with the direction of motion of a body is:

20 When a body moves against the force of friction on a horizontal plane, the work done by the body is:

C. 60°
D. 90°

A. Positive
B. Negative
C. Zero
D. None of these