

Physics ECAT Pre Engineering Chapter 4 Work and Energy

Sr	Questions	Answers Choice
1	When force and displacement are perpendicular to each other than work is equal to	A. Unity B. Infinity C. Zero D. $-Fd$
2	Escape velocity from surface of Moon as compared to that from Earth surface is:	A. Greater B. Smaller C. Equal D. None of these
3	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
4	Most of the geysers occur in:	A. Volcanic regions B. Magnetic regions C. Northern region D. None of these
5	When a body 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
6	Work done is maximum when angle between force and displacement is:	A. 0° B. 90° C. 180° D. None of these
7	Energy stored in the spring of a watch is called	A. Potential energy B. Kinetic energy C. Nuclear energy D. Elastic potential
8	Power is a :	A. Vector quantity B. Base quantity C. Scalar quantity D. None of these
9	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
10	The tidal energy is due to gravitational pull of :	A. sun B. moon C. Mars D. None of these
		A. Maximum work B. Minimum work

11	When a wall is pushed by a person very strongly, he has done:	B. Zero work C. Positive work D. Negative work
12	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
13	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
14	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
15	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.
16	The space around the earth in which its gravitational force acts on a body is called	A. Electric Field B. Gravitational field C. Magnetic field D. Conservative field
17	Tick the conservation force:	A. Tension in a string B. Air resistance force C. Elastic spring D. Frictional force
18	The unit of work in CGS system is	A. Joule B. Erg C. Dyne D. Watt
19	The space around the earth within which it expects a force of attraction on other bodies is known as:	A. Nuclear field B. Conservative field C. Electric field D. Gravitational field
20	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