

ECAT Physics Chapter 4 Work and Energy

Sr	Questions	Answers Choice
1	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
2	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
3	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
4	When two protons are brought are brought closer potential energy of both of them:	A. Increases B. Decreases C. Remains same D. None of these
5	The field in which work done is moving body between two points depends upon the path followed is called:	A. Conservative filed B. Non-conservative field C. Electric field D. None of these
6	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
7	The types of mechanical energy is/are:	A. Kinetic energy B. Potential energy C. Both of these D. None of these
8	Maximum work is done when force and displacement are	A. Parallel B. Antiparallel C. Perpendicular D. Both a and b
9	Work has the dimensions as that of	A. Torque B. Angular momentum C. Linear momentum D. Power
10	Work done is maximum when angle between force and displacement is:	A. 0° B. 90° C. 180° D. None of these
		A. Direction B. Force

11	The work done in moving a body between two points in a conservation field is independent of the:	B. Force applied C. Path followed by the body D. Power
12	The commercial unit of electrical energy is :	A. K Watt B. KWH C. Horse power D. Joule
13	Which force is not a conservative force:	A. Frictional force B. Gravitational force C. Electric force D. Elastic spring force
14	The work done on the body will be zero if:	A. No force is applied on the body B. Force is applied but no displacement C. Angle between F(force) and d(displacement) is 90° D. All of these are correct
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	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
17	The work done by a force, keeping an object in circular motion with constant speed is:	A. Zero J B. 1 J C. 0.1 J D. 0.01 J
18	The ultimate source of energy sources of energy is:	A. Sun B. Air C. Water D. Petroleum
19	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
20	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