ECAT Pre General Science 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	Watt x second is unit of:	A. Force B. Work C. Power D. None of these
3	Maximum work is done when force and displacement are	A. Parallel B. Antiparallel C. Perpendicular D. Both a and b
4	Which force is not a conservative force?	A. Frictional force B. Gravitational force C. Electric force D. Elastic spring force
5	If force and displacement are in opposite direction, the work done is taken as:	A. Positive work B. Negative work C. Zero work D. Infinite work
6	When the body is 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
7	The types of mechanical energy is/are:	A. Kinetic energy B. Potential energy C. Both of these D. None of these
8	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
9	The unit of work in CGS system is	A. Joule B. Erg C. Dyne D. Watt
10	When a falling body hits ground, its KE changes to _____ energy.	A. Potential B. Chemical C. Mechanical D. sound and heat
11	The commercial unit of electrical energy is :	A. K Watt B. KWH C. Horse power D. Joule
12	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
13	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
14	Energy stored in the spring of a watch is called	A. Potential energy B. Kinetic energy C. Nuclear energy D. Elastic potential
15	The dimensions of work	A. [MLT⁻¹] B. [MLT⁻²] C. [ML²T⁻²] D. [MLT]

16	The tidal energy is due to gravitational pull of :	A. sun B. moon C. Mars D. None of these
17	Work is a	A. Scalar quantity B. Vector quantity C. Base quantity D. None of these
18	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
19	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
20	Tick the conservation force:	A. Tension in a string B. Air resistance force C. Elastic spring D. Frictional force