

## ECAT Pre General Science Physics Chapter 4 Work and Energy

Sr	Questions	Answers Choice
1	The tidal energy is produced due to rotation of Earth relative to:	A. Moon B. Sun C. Oceans D. Water
2	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
3	Tick the conservative force	A. Tension in a string B. Air resistance C. Elastic spring D. Frictional force
4	Work-energy principle states that work done on the body by applied force is equal to change in:	A. Potential energy B. Kinetic energy C. Linear momentum D. None of these
5	In the force applied is parallel to the direction of motion, then work done is:	A. Maximum B. Minimum C. Zero D. None of these
6	Most of the geysers occur in:	A. Volcanic regions B. Magnetic regions C. Northern region D. None of these
7	The unit of work in CGS system is	A. Joule B. Erg C. Dyne D. Watt
8	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 $90^\circ$ D. All of these are correct
9	A solar cell converts energy of the Sun into:	A. Heat energy B. Magnetic energy C. Light energy D. Sound energy
10	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 $60^\circ$ 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
11	The consumption of energy by a 1000 watt heater in half an hour is:	A. 5 Kwh B. 0.5 Kwh C. 2.5 Kwh D. 3.2 Kwh
12	The space around the earth within it exerts a force of attraction on other bodies of known as:	A. Nuclear field B. Conservative field C. Electric field D. Gravitational field
13	The energy stored in the water of the dam is:	A. Electric energy B. Kinetic energy C. Potential energy

D. None of these

14 The types of mechanical energy is/are:  
A. Kinetic energy  
B. Potential energy  
C. Both of these  
D. None of these

15 Work is a Quantity  
A. Vector  
B. Scalar  
C. Non-physical  
D. None of these

16 Work done on a body by gravity in lifting it up to certain height is  
A. Maximum  
B. Minimum  
C. Zero  
D. Negative

17 When a falling body hits ground, its KE changes to \_\_\_\_\_ energy.  
A. Potential  
B. Chemical  
C. Mechanical  
D. sound and heat

18 Which force is not a conservative force:  
A. Frictional force  
B. Gravitational force  
C. Electric force  
D. Elastic spring force

19 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

20 Maximum work is done when force and displacement are  
A. Parallel  
B. Antiparallel  
C. Perpendicular  
D. Both a and b