

ECAT Physics Chapter 4 Work and Energy Online Test

Sr	Questions	Answers Choice
1	Work is a scalar product of	A. Force, Velocity B. Velocity, Displacement C. Force, Displacement D. Force, Momentum
2	Work is a Quantity	A. Vector B. Scalar C. Non-physical 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	When force and displacement are perpendicular to each other than work is equal to	A. Unity B. Infinity C. Zero DFd
5	Work done by the force of friction is always	A. Positive B. Zero C. Negative D. Maximum
6	SI Unit of work is	A. Nm ⁻¹ B. Joule C. Nms D. Both a and b
7	Area under the force displacement graph gives	A. Power B. Work C. Heat D. Energy
8	The dimensions of work	A. [MLT ⁻¹] B. [MLT ⁻²] C. [ML ² T ⁻²] D. [MLT]
9	If one newton force acts on a body and displaces the body through 1m work done on body is	A. 1 dyne B. 1 joule C. 1KJ D. 1 Watt
10	1 J =?	A. 10 ⁷ erges B. 10 ⁻⁷ erges C. 10 ⁵ erges D. 10 ⁻⁵ erges
11	The unit of work in CGS system is	A. Joule B. Erg C. Dyne D. Watt
12	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
13	Work done on a body by gravity in lifting it up to certain height is	A. Maximum B. Minimum C. Zero D. Negative
14	Work done is independent of path followed in	A. Gravitational field B. Magnetic field C. Electric field D. All of these
15	Which one is conservative force	A. Electric force B. Frictional force C. Normal force D. Air resistance

16	Work is a	A. Scalar quantity B. Vector quantity C. Base quantity D. None of these
17	Work is a always done on a body when	A. A force acts on it B. It moves through certain distance C. None of A or B is correct D. Both A and B are correct
18	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
19	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
20	Work has the dimensions as that of	A. Torque B. Angular momentum C. Linear momentum D. Power
21	Work done is maximum when angle between force and displacement is	A. 0° B. 90° C. 180° D. None of these
22	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
23	A body moves a distance of 10 m along a straight line under the action of a force of 5 N and work done in 25J. The angle which the force makes with the direction of motion will be	A. 60° B. 90° C. 30° D. 0°
24	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
25	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
26	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
27	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
28	Tick the conservative force	A. Tension in a string B. Air resistance C. Elastic spring D. Frictional force
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		A Torque

33	Work has the dimension as that of:	B. Angular momentum C. Linear momentum D. Power
34	Work done is maximum when angle between force and displacement is:	A. 0 ° C. 180 ° D. None of these
35	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
36	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

40	The angle between centripetal force and displacement of the body moving in a circle is:	A. 0 <span 10.5pt;="" 107%;="" arial,="" back<="" background-attachment:="" background-clip:="" background-image:="" background-limage:="" background-origin:="" background-position:="" background-repeat:="" background-size:="" font-family:="" font-size:="" initial;="" line-height:="" sans-serif;="" style="font-size: 10.5pt; line-height: 107%; font-family: Arial, sans-serif; background-image: initial; background-position: initial; background-repeat: initial; background-attachment: initial; background-origin: initial; background-clip: initial; background-clip: initial; background-lip: initial; background-lip: initial; background-lip: initial; background-position: initial; background-position: initial; background-size: initial; background-attachment: initial; background-origin: initial; background-clip: initial; background-clip: initial; background-mage: initial; background-repeat: initial; background-image: initial; background-position: initial; background-position: initial; background-position: initial; background-repeat: initial; background-attachment: initial; background-origin: initial; background-origin: initial; background-clip: initial; backgr</th></tr><tr><td>41</td><td>Work done is lowering the bucket into the well is:</td><td>A. Zero B. Positive C. Negative D. None of these</td></tr><tr><td>42</td><td>A two Kg block is held 1 m above the floor for 50 seconds, the work done is:</td><td>A. Zero
B. 10.2 J
C. 100 J
D. 980 J</td></tr><tr><td>43</td><td>In the force applied is parallel to the direction of motion, then work done is:</td><td>A. Maximum B. Minimum C. Zero D. None of these</td></tr><tr><td>44</td><td>When the body is moves against the force of friction on a horizontal plane, the work done by the body is:</td><td>A. Positive B. Negative C. Zero D. None of these</td></tr><tr><td>45</td><td>The total work done in moving the body up and then down through the same height in a gravitational field is equal to:</td><td>A. mgh B. Its wight C. Weight X height D. Zero</td></tr><tr><td>46</td><td>A 100 Kg car is moving at the speed of 10 m/sec and comes to rest after covering a distance of 50 m. The amount of work done against the friction is:</td><td>A. +5 X 10<sup>1</sup>J B. +5 X 10<sup>2</sup>J C. +5 X 10<sup>3</sup>J D. +5 X 10<sup>4</sup>J</td></tr><tr><td>47</td><td>A body moves a distance of 10 m among a straight line under the action of a force of 5 N. If the work done is 25 J, the angle which the force makes with the direction of motion of a body is:</td><td>A. 0
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48	A labourer carrying a distance a load on his head moves from rest on a horizontal road to another point where he comes to rest. He has done:`	A. Minimum work B. <div>Maximum work</div> C. Zero work D. Negative work
49	Which force is not a conservative force:	A. Frictional force B. Gravitational force C. Electric force D. Elastic spring force
50	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
51	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
52	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
53	A boy pulls a toy car through a distance of 5 m by applying a force of 0.5 N, which makes and 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
54	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 <
55	Work is a:	D. All of these are correct A. Scalar quantity B. Vector quantity C. Base quantity D. None of these
56	Work is always done on a body when:	A. A force acts on it B. It moves through certain distance C. None of A and B is correct D. Both A and B is correct
57	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
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60	Work done is maximum when angle between force and displacement is:	line-height: 107%; font-family: Arial, sans-serif; background-image: initial; background-size: initial; background-repeat: initial; background-attachment: initial; background-origin: initial; background-clip: initial; background-clip: initial;">° C. 180 ° D. None of these
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		D. Non-conservative field
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73	A 100 kg car is moving at a speed of 10 m/sec and comes to rest after covering a distance of 50 m. the amount of work done against friction is:	A. +5 x 10 ¹ J B. +5 x 10 ² J C. +5 x 10 ³ J D. +5 x 10 ⁴ J
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80	Work is product of:	A. Force and velocity B. Heat and energy C. Force and displacement D. None of these
81	Energy stored in the spring of a watch is called	A. Potential energy B. Kinetic energy C. Nuclear energy D. Elastic potential
82	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.
83	Work-energy principle states that work done on the body by applied force is equal to change in:	A. Potential energy B. Kinetic nergy C. Linear momentum D. None of these
84	The energy stored int he water of the dam is:	A. Electric energy B. Kinetic energy C. Potential energy D. None of these
85	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
86	Escape velocity from surface of Moon as compared to that from Earth surface is:	A. Greater B. Smaller C. Equal D. None of thes
87	The types of mechanical energy is/are:	A. Kinetic energy B. Potential energy C. Both of these D. None of these
88	The commercial unit of electrical energy is :	A. K Watt B. KWH C. Horse power D. Joule
89	When a falling body hits ground, its KE changes to energy.	A. Potential B. Chemical C. Mechanical D. sound and heat
90	The value of escape velocity of Earth planet comes out to be:	A. 11 m/sec B. 11 km/sec C. 11 km/hour D. 11 cm/sec
91	Which of the following is not a unit of power:	A. J-sec B. Watt C. N m/sec D. Horsepower
92	Watt x second is unit of:	A. Force B. Work C. Power D. None of these
93	Power is a :	A. Vector quantity B. Base quantity C. Scalar quantity D. None of these
94	The power of an electric generating station is expressed in:	A. Kilo Jule B. Kilowatt-hour C. Kilo watt D. Watt
95	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
96	Teh 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
97	If work is done at the rate of 2 k j per second, then total work done is half an hour will be:	A. 0.5 Kwn B. 2 Kwh C. 1 Kwh

		D. None of these
98	The ultimate source of money sources of energy is:	A. Sun B. Air C. Water D. Petroleum
99	A solar cell converts energy of the Sun into:	A. Heat energy B. Magnetic energy C. Light energy D. Sound energy
100	The tidal energy is due to gravitational pull of :	A. sun B. moon C. Mars D. None of these
101	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
102	A solar cell is made from:	A. Iron B. Silicon C. Germanium D. Copper
103	Most of the geysers occur in:	A. Volcanic regions B. Magnetic regions C. Northern region D. None of these
104	The tidal energy is produced due to rotation of Earth relative to:	A. Moon B. Sun C. Oceans D. Water
105	Work is a scalar product of	A. Force, Velocity B. Velocity, Displacement C. Force, Displacement D. Force, Momentum
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189	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
190	Escape velocity from surface of Moon as compared to that from Earth surface is:	A. Greater B. Smaller C. Equal D. None of thes
191	The types of mechanical energy is/are:	A. Kinetic energy B. Potential energy C. Both of these D. None of these
192	The commercial unit of electrical energy is :	A. K Watt B. KWH C. Horse power D. Joule
193	When a falling body hits ground, its KE changes to energy.	A. Potential B. Chemical C. Mechanical D. sound and heat
194	The value of escape velocity of Earth planet comes out to be:	A. 11 m/sec B. 11 km/sec C. 11 km/hour D. 11 cm/sec
195	Which of the following is not a unit of power:	A. J-sec B. Watt C. N m/sec D. Horsepower
196	Watt x second is unit of:	A. Force B. Work C. Power D. None of these

197	Power is a :	A. Vector quantity B. Base quantity C. Scalar quantity D. None of these
198	The power of an electric generating station is expressed in:	A. Kilo Jule B. Kilowatt-hour C. Kilo watt D. Watt
199	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
200	Teh 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
201	If work is done at the rate of 2 k j per second, then total work done is half an hour will be:	A. 0.5 Kwn B. 2 Kwh C. 1 Kwh D. None of these
202	The ultimate source of money sources of energy is:	A. Sun B. Air C. Water D. Petroleum
203	A solar cell converts energy of the Sun into:	A. Heat energy B. Magnetic energy C. Light energy D. Sound energy
204	The tidal energy is due to gravitational pull of :	A. sun B. moon C. Mars D. None of these
205	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
206	A solar cell is made from:	A. Iron B. Silicon C. Germanium D. Copper
207	Most of the geysers occur in:	A. Volcanic regionsB. Magnetic regionsC. Northern regionD. None of these
208	The tidal energy is produced due to rotation of Earth relative to:	A. Moon B. Sun C. Oceans D. Water