

## Physics ECAT Pre Engineering Chapter 4 Work and Energy

Sr	Questions	Answers Choice
1	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
2	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
3	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
4	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
5	Work is product of:	A. Force and velocity B. Heat and energy C. Force and displacement D. None of these
6	If force and displacement are in opposite direction, the work done is taken as:	A. Positive work B. Negative work C. Zero work D. Infinte work
7	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
8	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
9	Work done in lower and bucket into the well is:	A. Zero B. Positive C. Negative D. None of these
10	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
11	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
12	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.
13	A laborer carrying a load on his head moves from the rest on a horizontal road to another point where he comes to rest. He has done:	A. Minimum Work B. Maximum Work C. Zero Work D. Negative Work
14	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
		A. 60

A. 60<span style="font-size: 10.5pt; line-height: 107%; font-family: Arial, sans-serif; background-image: initial; background-position: initial;

repeat: initial; backgroundattachment: initial; background-origin: initial; background-clip: >°</span> B. 90<span style="font-size: 10.5pt; line-height: 107%; font-family: Arial, sans-serif; background-image: initial; background-position: initial; background-size: initial; backgroundrepeat: initial; backgroundattachment: initial; background-origin: initial; background-clip: A body moves a distance of 10 m along a straight line under the action of a force of 5 N and initial;">°</span> 15 C. 30<span style="font-size: 10.5pt; work done is 25J. the angle which the force makes with the direction of motion will be: line-height: 107%; font-family: Arial, sans-serif; background-image: initial; background-position: initial; background-size: initial; backgroundrepeat: initial; backgroundattachment: initial; background-origin: initial; background-clip: initial;">°</span> D. 0<span style="font-size: 10.5pt; line-height: 107%; font-family: Arial, sans-serif; background-image: initial; background-position: initial; background-size: initial; backgroundrepeat: initial; backgroundattachment: initial; background-origin: initial; background-clip: initial;">°</span> A. 0<span style="font-size: 10.5pt; line-height: 107%; font-family: Arial, sans-serif; background-image: initial; background-position: initial; background-size: initial; backgroundrepeat: initial; backgroundattachment: initial; background-origin: initial; background-clip: initial;">°</span> B. 30<span style="font-size: 10.5pt; line-height: 107%; font-family: Arial, sans-serif; background-image: initial; background-position: initial; background-size: initial; backgroundrepeat: initial; backgroundattachment: initial; background-origin: initial; background-clip: A body moves a distance of 10 m among a straight line under the action of a force of 5 N. If initial;">°</span> 16 the work done is 25 J, the angle which the force makes with the direction of motion of a body C. 60<span style="font-size: 10.5pt; line-height: 107%; font-family: Arial, sans-serif; background-image: initial; background-position: initial; background-size: initial; backgroundrepeat: initial; backgroundattachment: initial; background-origin: initial; background-clip: initial;">°</span> D. 90<span style="font-size: 10.5pt; line-height: 107%; font-family: Arial, sans-serif; background-image: initial; background-position: initial; background-size: initial; backgroundrepeat: initial; backgroundattachment: initial; background-origin: initial; background-clip: initial;">°</span> 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<span style="font-size: 10.5pt; line-height: 107%; font-family: Arial, sans-serif; 17 The work done on the body will be zero if: background-image: initial; background-position: initial; background-size: initial; backgroundrepeat: initial; backgroundattachment: initial; background-origin: initial; background-clip: initial;">°</span> D. All of these are correct A. Zero J. B. 0.1 J 18 The work done by a force keeping an object in circular motion with constant speed is: C. 1 J

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19	The energy stored int he water of the dam is:	A. Electric energy B. Kinetic energy C. Potential energy D. None of these
20	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:	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