Physics ECAT Pre Engineering 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 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
3	The angle between centripetal force and displacement of the body moving in a circle is:	A. $0°$ B. $90°$ C. $180°$ D. None of these
4	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. $+5 \times 10^1$ J B. $+5 \times 10^2$ J C. $+5 \times 10^3$ J D. $+5 \times 10^4$ J
5	Work is 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 is correct
6	Work done in lower and bucket into the well is:	A. Zero B. Positive C. Negative D. None of these
7	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
8	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
9	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
10	Work has the dimension as that of:	A. Torque B. Angular momentum C. Linear momentum D. Power
	The field in which work done in moving a body between two points depends upon the motion	A. Conservative filed B. Non-conservative field

11	The field in which work done is moving body between two points depends upon the path followed is called:	B. Non-conservative field C. Electric field D. None of these
12	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
13	Maximum work is done when force and displacement are	A. Parallel B. Antiparallel C. Perpendicular D. Both a and b
14	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
15	Work done is maximum when angle between force and displacement is	A. 0° B. 90° C. 180° D. None of these
16	Work done is independent of path followed in _____	A. Gravitational field B. Magnetic field C. Electric field D. All of these
17	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
18	Work done by the force of friction is always	A. Positive B. Zero C. Negative D. Maximum
19	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 with the direction of motion will be:	A. 60° B. 90° C. 30° D. 0°
20	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.