

ECAT Physics Chapter 3 Motion and Force

Sr	Questions	Answers Choice
1	When the surfaces are coated with a lubricant, then they	A. Stick to each other B. Slide upon each other C. Roll upon each other D. None of these
2	In the above figures, tell which set is graphs shows that a body is moving uniform velocity:	A. (i) and (ii) B. (ii) and (iii) C. (i) and (iii) D. (ii) and (iv)
3	Work done along a closed path in a gravitational force is:	A. maximum B. Minimum C. Zero D. Unity
4	Distance traveled by a body falling from rest in the first, second and third second is in the ration of	A. 1 : 2 : 3 B. 1 : 3 : 5 C. 1 : 4 : 9 D. None of the above
5	Which one of the following is dimensionless:	A. Acceleration B. Velocity C. Density D. Angle
6	Change in momentum is one second is called:	A. Impulse B. Force C. Energy D. Work
7	Angular momentum	A. Scalar B. Axial vector C. Polar vector D. At 45° angle
8	The entity which measures the quantity of motion in a body is called	A. force B. energy C. momentum D. power
9	The motion of a projectile is	A. one dimension B. two dimension C. three dimension D. all of them
10	In equation $F=ma$, then mass 'm' is	A. rest mass B. variable mass C. inertial mass D. gravitational mass
11	At the top of the trajectory of a projectile the acceleration is	A. The maximum B. The minimum C. Zero D. g
12	One KWh is equal to:	A. 3.6×10^2 J B. 3.6 KJ C. 3.6×10^1 KJ D. 3.6 MJ
13	The magnitude of the displacement is a line from initial position to final position which is	A. straight B. curved C. either be curved or straight D. none of them
14	Which one of the following is dimensionless.	A. Acceleration B. Velocity C. Density D. Angle
15	The short distance between two points direction from its initial point to final point is called:	A. Velocity B. Displacement C. Speed

		D. Distance
16	A lift is descending at a constant speed V . A passenger in the lift drops a coin. The acceleration of the coin towards the floor will be	A. Zero B. g C. $-g$ D. $V + g$
17	When the total displacement is divided by total time taken, we get:	A. Velocity B. Average speed C. Average velocity D. None of these
18	A body moving with uniform velocity has	A. positive acceleration B. negative acceleration C. infinite acceleration D. zero acceleration
19	For a fixed force, larger is the mass of a body the	A. greater is its acceleration B. smaller is its acceleration C. smaller is its weight D. zero is its acceleration
20	A body of mass 5 kg is acted upon by a total change in momentum will be:	A. 10 NS B. 100 NS C. 140 NS D. 200 NS