

ECAT Physics Chapter 3 Motion and Force

Sr	Questions	Answers Choice
1	One KWh is equal to:	A. 3.6 x 10 ² J B. 3.6 KJ C. 3,6 x 10 ¹ KJ D. 3,6 MJ
2	The dimension of linear inertia is:	A. MLT ² B. ML

		C. Elastic spring force D. Frictional force
9	If a car rest acceleration uniformly to a speed of 144 km/h in 20 s it covers a distance of	A. 20 m B. 400 m C. 1440 m D. 2880 m
10	A car moves for half of its time at 80 km/h and rest half of time at 40 km/h, The total distance covered is 60 km. What is the average speed of the car?	A. 60 km/hr B. 80 km/hr C. 120 km/hr D. 180 km/hr
11	A body is moving with constant velocity of 10 m/sec in the north-east direction. Then its acceleration will be:	A. 10 m/sec ² B. 20 m/sec ² C. 30 m/sec ² D. Zero
12	The motion of a body in a straight line is the motion in	A. one dimension B. two dimension C. three dimension D. four dimension
13	A vehicle of mass 120 kg is moving with a uniform velocity of 108 km/h. The force required to stop the vehicle in 10s is	A. 120 x 10.8 N B. 180 N C. 720 N D. 360 N
14	Slope of velocity-time graph represents:	A. Acceleration B. Speed C. Torque D. Work
15	Distance covered by a freely failing body n the first second of its motion will be:	A. 4.9 m B. 9.8 m C. 19.6 m D. 29.4 m
16	Which of the following is not a projectile	A. a bullet fired from a gun B. a space ship C. a football in air D. an artillery shell
17	If an iron ball and a wooden ball of the same radius was released from a height 'h' in vacuum, then time taken by both of them to reach ground will be	A. Unequal B. Exactly equal C. Roughly equal D. Zero
18	An airplane is flying horizontally with a velocity of 600 km/h and at a height of 1960 m. When it is vertically above a point A on the ground, a bomb is released from it. The bomb strikes the ground, at point B. The distance AB is	A. 1200 m B. 0.33 km C. 3.33 km D. 33 km
19	The product of force and time is called change in:	A. Momentum B. Impulse C. Force D. Both a and b
20	Flight of rocket in the space is an example of	A. Newton's first law B. Newton's third law C. Newton's second law D. all of them