

- (v) A car starts from rest and covers a distance of 100 m in one second with uniform acceleration. Its acceleration is:
- A. 100 m/s² B. 200 m/s²
C. 300 m/s² D. 50 m/s²
- (vi) A ball rolls off the edge of a table. The horizontal component of the ball's velocity remains constant during its entire trajectory because:
- A. The net force acting on the ball is zero
B. The ball is not acted upon by a force in the horizontal direction
C. The ball is acted upon by a force in the horizontal direction
D. The ball is acted upon by a force in the only vertical direction
- (vii) Which of the following is the example of conservative force?
- A. Tension in the string
B. Propulsion force of rocket
C. Gravitational field
D. Restoring force in compressed spring
- (viii) Any body requires _____ escape velocity, to escape from the gravitational pull of the mars.
- A. 2.4 km/s B. 4.3 km/s
C. 5 km/s D. 10.4 km/s
- (ix) In dryer, water is pushed out of wet clothes due to:
- A. Abundance of centripetal force
B. Lack of centripetal force
C. Friction