



5) The centripetal force acting on a car that moves in a circular path is initiated from .....

a- the sum of the horizontal component of friction force and the vertical component of reaction force

b- the sum of the horizontal component of friction force and reaction force

c- the reaction force only

d- the friction force only

6) A body rotates in a circular path with a speed of 10 m/s . if the moved distance during a half cycle is 44 m , so the periodic time of its circular motion is.....

a- 22 sec

b- 8.8 sec

c- 4.4 sec

d-  $\frac{22}{7}$  sec

7) A person tied a body by a rope and held the second end of the rope then he managed the body in a circular path , suddenly the rope is cut then the direction of motion of the body at this moment is .....

a- in a circular path but it has a longer diameter

b- towards the center of the circular path

c- outside the center of the circular path

d- in a tangent direction to the circular path

8)The centripetal acceleration arises from the change in the direction of velocity and the unit of measuring the centripetal acceleration is .....

a-  $M^2s^{-1}$

b-  $M s^{-2}$

c-  $M^2 s^{-2}$

d-  $M^{-2}s^{-1}$