MOTION

6) In rotatory motion, the axis of rotation passes from a point in the body itself whereas in circular motion, the axis of revolution passes through a point outside the body.

7) A motion which gets repeated after a regular interval of time is called a periodic motion while the motion which does not replat itself after a regular interval of time is called non-periodic motion.

8) The weight of a body is the force with which earth attracts the body. The S.I. unit of weight is newton.

9)

Total distance travelled = $30m + 30m$

$= 60m$

Total time travelled $= 1min + (1.5min)$

$= 60sec + (60+30)sec$

$= 60s + 90s$

$= 150s$

Average speed $v = \dfrac{\text{Distance travelled (D)}}{\text{Time taken (t)}}$

$\Rightarrow v = \dfrac{D}{t} = \dfrac{60m}{150s} = \dfrac{2m}{5s}$

$= 0.4 \, ms^{-1}$