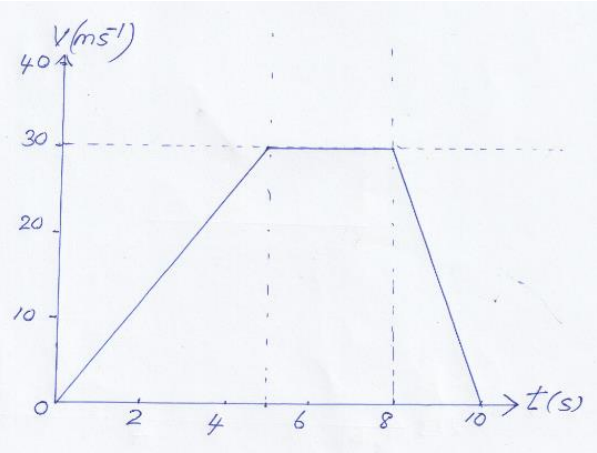
11) An object was thrown up at a velocity of $40ms^{-1}$.
(gravitational acceleration=$10ms^{-2}$)
(i) Draw a rough velocity time graph to show the movement of the object to its highest point.
(ii) Find the time taken to reach the reach the highest point.
(iii) Find the height of the highest point.

12) An object fell from a height of 320m. (gravitational acceleration=$10ms^{-2}$)
(i) Draw a velocity time graph to show the movement of the falling object.
(ii) Find the time taken to reach the ground.
(iii) Find the velocity of the object just before it reached the ground.

13) Nimal moved from A to B a distance of 13m to north east in 14s and then moved from B to C a distance of 12m to south in 6s.
(i) Find his distance
(ii) Find his displacement
(iii) Find his average speed
(iv) Find his average velocity

14) Wimal ran on a straight road and his movement is represented by the following graph.
(i) Find the distance he moved
(ii) Find his displacement
(iii) Find his average speed
(iv) Find his average velocity

15) The following graph represents the movement of a vehicle on a straight road.



(i) Briefly describe its movement.

(ii) Find his acceleration

(iii) Find his deceleration

(iv) Find the displacement during acceleration

(v) Find the total displacement

(vi) Find the average velocity

16) A vehicle which was parked near a tree moved in acceleration for 4s and then moved in uniform velocity for another 6s. During this 10s it moved 160m. Find its uniform velocity.

17) An object was thrown up and allowed to fall. Draw a velocity time graph to show its movement.

18) An object was thrown up at a velocity of $80ms^{-1}$. ($g=10ms^{-2}$)

(i) Find the maximum height it can reach.

(ii) Find the total time taken to move up and fall down.