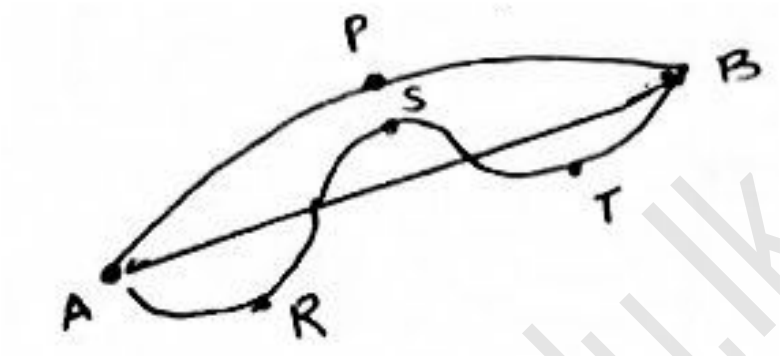
e-Learning Programme - 2020

Grade - 10 **Science** **Assignment - 02**

Unit 02 **Motion in a straight line**

01. (I). (A). The diagram shows three pathways from A to B



(i). Name the path travel from A to B without change the direction

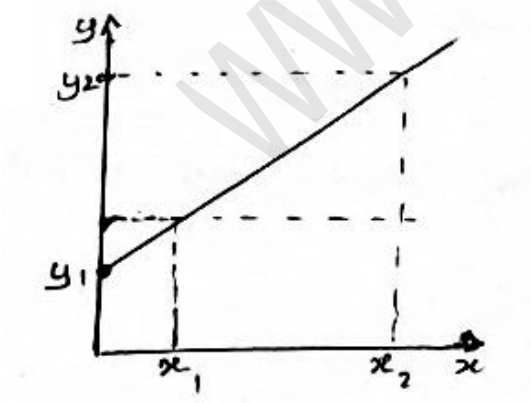
(ii). Which is the shortest path

(iii). How many paths are shortest from A to B

(iv). What is Displacement?

(v). Differentiate the followings as scaler quantity and vector quantity , displacement, distance, velocity, speed, acceleration and deceleration.

(B).



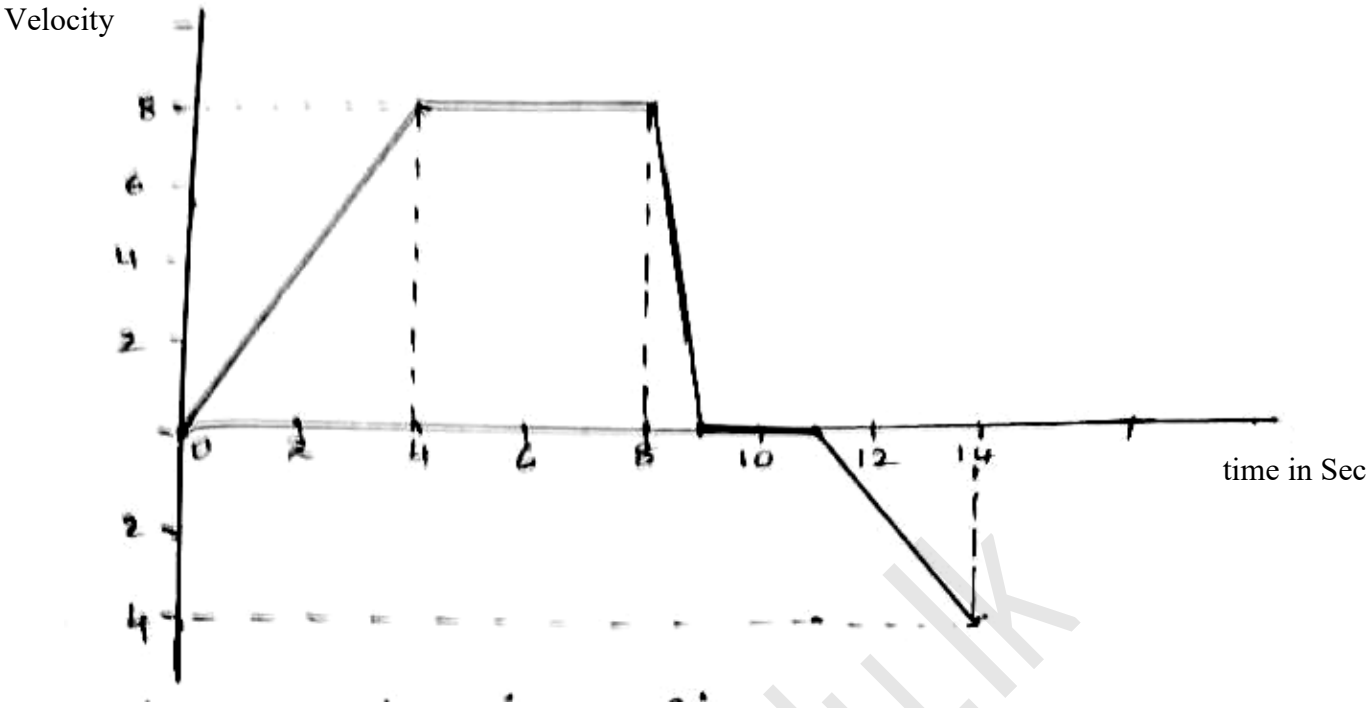
(i). Find the gradient of given strait line

(ii). gradient of displacement - time graph, and velocity - time graphs are denote what?

(iii). Name the numeric value of area which indicate the Graph of velocity - time graph and time axis covered.

www.lkedu.lk

(C). Velocity - time graph is given below



Calculate the followings

(i). Acceleration for first 4 seconds

(ii). Time taken for uniform velocity

(iii). Distance traveled in uniform velocity

(iv). Time taken for deceleration

(v). Time taken for rest

(vi). Describe the motion of last 3 seconds

www.lkedu.lk