G.S.MAYA II

Assignment NO1: UNIT1Graphs of linear motion

**1.** What do you understand by:

**(a)** Accelerated motion.

**(b)** Non-accelerated motion.

**(c)** Give 2 examples for the motions in (a) and (b).

**2.** Show that:

**(a)** The slope of a displacement-time graph gives the velocity.

**(b)** The slope of a velocity-time graph gives acceleration.

**(c)** The area under the graph of velocity-time gives the displacement.

The data for a journey made by a car is given in table



**(a)** How far does the car go in the first interval?

**(b)** Determine the total distance of the journey.

**(c)** Plot a graph of speed against time for this journey.

**(d)** Indicate the area on your graph which corresponds to the first 22.5 km/h of travel.