TIME-45MIN   MAX MARKS-25

I. Choose the correct answer for the following incomplete statements and write the correct answer along with its letter of alphabet

  I. The change in position with time is
     a) Motion   c) Velocity
     b) Displacement   d) Distance
  II. The graph of the uniform motion shows
     a) Straight line   c) Zigzag line
     b) Circle   d) Curved line
  III. The S.I unit of displacement is
     a) 'M   c) m/sec
     b) m/sec^2 d) sec

II. One mark question
    1. How can you describe a motion?
    2. name the device used to measure the distance of an automobile ?
    3. define acceleration?

III. Two mark question
    1. Differentiate between distance and displacement?
    2. A bus decreases its speed from 80km/hr to 60km/hr in 5sec. find acceleration of bus?
    3. define velocity and speed?

IV. Three mark questions
    1. Write the equations of motion? And derive $2as=v^2-u^2$ **(or)**

    Convert speed of 54km/hr and 20km/hr into m/s ?

    2. a. Define
       a) Uniform acceleration   b) Non-uniform acceleration

    b. An object moves a distance is it has zero displacement?

    3. A car travels 20m in 5 sec and another 15m in 10 sec. what is average speed of car?

V. Answer any one of the following.
    1) Plot a D-T graph for the following values

TIME (Sec)	DISTANCE(m)
0	0
1	10
2	20
3	30
4	40
5	50

    2) a. Distinguish between speed and velocity?
       b. write the S.I units of the following
          1. distance   2. acceleration