



MARGSHREE CLASSES PVT. LTD.

IIT-JEE / NEET / FOUNDATION (IX & X)

Time: 2 hours

Physics | 11th Class

Marks: 50

(Motion)

NAME OF THE STUDENT:- _____

DATE:- _____

INSTRUCTION – ATTEMPT ALL QUESTIONS

- Q.1. $f(x)=\log(3x+12x+3)$ (Differentiate)
- Q.2. $y=2t^4-10t^2+13t$ (Differentiate)
- Q.3. $y= e^{(4x+3)}$ (Integrate)
- Q.4. $y=6x^2+3x$ (Integrate)
- Q.5. Is it possible for a body to have constant acceleration without having any velocity.
- Q.6. Find the average velocity of a particle moving at $x=3x+4$ at $t=2$ sec.
- Q.7. A particle is dropped from a height of 60m find its final velocity after 2nd drop.
- Q.8. Two train each of length 50 m approaching each other on parallel rails. Their velocities are 10 m/s and 15 m/s . They will cross each other in .
- Q.9. For 1 third of the total distance particle move with speed of 20 m/s for another 1 third 30m/s and for the rest 10 m/s find the average speed of the particle.
- Q.10. $X=t^2+2t+1$ write v in terms of x