AFGJI

CLASS XI

PHYSICS ASSIGNMENT

Q1. State whether in following situations motion of an object is accelerated or retarded-

(i) v+ve, a +ve, (ii) v –ve, a+ve, (iii) v+ve, a-ve, (iv)v-ve ,a -ve

Q2. What is the difference between (i) $\Delta x/\Delta t$ and dx/dt, (ii) dx/dt and dx/dt?

Q3.Motion of a particle is given by $x = 6t + 3t^2 - 2t^3m$. Find its v at t=0s and t=1s. also find its a at t=1s.

Q4. Acceleration of a body is given by $a = 2t+3t^2ms^{-2}$. Calculate its velocity. Given that its initial velocity is 5m/s.

Q5. A ball is thrown up by a boy with initial velocity 20m/s. It comes back to him 4s later. Draw the velocity time graph of the motion of the ball.

(Submit the assignment by 7th may Wed.)