## AFGJI <br> CLASS XI <br> 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 $d x / d t$, (ii) $d x / d t$ and $d x / d t$ ?
Q3. Motion of a particle is given by $x=6 t+3 t^{2}-2 t^{3} m$. Find its $v$ at $t=0$ s and $t=1 s$. also find its at $t=1 s$.
Q4. Acceleration of a body is given by $a=2 t+3 t^{2} \mathrm{~ms}^{-2}$. Calculate its velocity. Given that its initial velocity is $5 \mathrm{~m} / \mathrm{s}$.
Q5. A ball is thrown up by a boy with initial velocity $20 \mathrm{~m} / \mathrm{s}$. It comes back to him 4 s later. Draw the velocity time graph of the motion of the ball.
(Submit the assignment by $7^{\text {th }}$ may Wed.)

