_	XI Physics Worksheet	
Time: 30 min	Chapter#3 : Motion in Straight Line	E-02 Full Marks: 20
Instructions: 1. All questions are compulsory. 2. Please give the explanation for the answer where applicable.		
Q1 - What are scalar	and vector quantities?	(2 Marks)
Q2 - Differentiate spe	ed and velocity.	(2 Marks)
Q3 - The distance 'x' of to time t by relation $t = \sqrt{x + 3}$	of particle moving in one dimension under the acti	ion of a constant force is related
Where 'x' is in m, t i	is in sec. Find displacement when velocity is zero.	(3 Marks)
Q4 - Explain following	g velocity time graphs.	(3 Marks)
Q5 - A particle is mov	ving along X axis the position is given by $x = K + jt^2$	
where K = 8m and j =	= 4 m/s2 t is time. Find velocity of particle at t =	0, t= 3 sec. (3 Marks)
Q6 -A body is dropped fall. What is the heigh	d from the top of a tower, which falls through 40m nt of tower ?(g= 10 m/s2)	n during the last two seconds of its (5 Marks)
07 - The displacemen	nt of a body is zero. Is the distance covered by it a	lso necessarily zero?
08 - If a body has cor	nstant speed, is it true that it can have acceleratio	(1 Mark)
		(1 Mark)