Time: 30 min	XI Physics Worksheet Chapter#3: Motion in Straight Line-01	 Full Marks: 20
Instructions: 1. All questions ar 2. Please give the	re compulsory. explanation for the answer where applicable.	
Q1 - Explain displacen	ment.	
		(2 Marks)
	rough distance x from a point A to a point B and returns bac nce and the displacement covered by the body.	ck to A by same path.
		(2 Marks)
Q3 - Give some impor	tant features of uniform motion.	(2 Marks)
	oving with a velocity of 800 km/hr. The gases are ejecting froken/hr with respect to jet. Find the velocity of gases w.r.t a	- ·
Q5 - Draw the positior relative velocity.	n time graphs for two objects initially occupying different po	sitions but having zero
		(3 Marks)

Q6 - Derive the equations of motion v = u + at, $s = ut + (1/2)at^2$, $v^2 - u^2 = 2as$ by calculus.

Q9 - A car and a bike with the same kinetic energy are brought to rest by the application of brakes which

provide equal retarding forces. Which of them will come to rest in a shorter distance?

Q7 - Can a body have Constant speed but a varying Velocity?

Q8 - What is frame of reference?

(5 Marks)

(1 Mark)

(1 Mark)

(1 Mark)