XI Physics Worksheet

Time: 30 min	Chapter#5 : Laws of Motion-02	Full Marks: 20
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Instructions:

- 1. All questions are compulsory.
- 2. Please give the explanation for the answer where applicable.

Q1 - When a ball falls on the earth, the earth also moves up to meet it. But the motion of the ear noticeable. Explain why?	rth is not
	2 Marks)
Q2 - Can a single isolated force exist in nature? Give reason.	2 Marks)
Q3 - When a man jumps out of a boat, the boat is pushed away. Why?	2 Marks)
Q4 - A body of mass m moves along x-axis such that its position co-ordinate at any instant t is x bt3 + ct. Where a, b, c are constant. What is the force acting on the particle at any instant.	= at4 - (3 Marks)
Q5 - Express newton's second how of motion in component form. Give its significance.	3 Marks)
Q6 - An electric bulb suspended from the roof of a railway train by a flexible wire shifts through a of 19048' when the train goes horizontally round a curved path of 200m radius. Find speed of tra	_
Q7 - Is an external force required to keep a body in uniform motion?	(1 Mark)
Q8 - Suppose you are sitting inside a van at rest. You push the van from within. will it move?	(1 Mark)
Q9 - Is force of friction independent of path?	

(1 Mark)