WORK SHEET – Module –4/5

Name	e:	Roll No	Class/ S	Sec
Date:	Max. Mar	rks ;	Marks Obtained	
Sub:	SCIENCE (PHYSICS)	Class: IX		
	Chap – 9, 1	FORCE AN	D LAWS OF MOTIC	N
Ansv	wer the following quest	ions in one	word or in on sente	nce.
1.	A balloon is inflated and	released wh	ny does it fly forward	as air escapes
	out of it?			1m
2.	If action and reaction are equal and opposite forces then why they do not			
	cancel each other?			1m
3.	"A horse pulling the cart.	"Write wha	t is the action and the r	eaction force?
				1m
4.	Does Newton's third law apply to a system where bodies do not actually			
	touch each other?			1m
5.	According to the third	law of moti	on action and reaction	force act on
	same body or on different	t bodies?		1m
	6.How are action and read	ction forces	related in magnitude &	direction?
				1m
7.	Which law can explain the	e process of	recoil of gun?	1m
8.	Why is it difficult to wal	lk on a sand?		1m
9.	Which law says the nature	e of force?		1m
	10. What is the force of a	ection and the	e force of reaction in "	swimming''?

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ANSWER KEY

- 1. The reaction force of air pushed out of balloon pushes the balloon in forward.
- 2. Action and reaction forces act upon different bodies.
- 3. Horse exerts a force on the ground is an action force. Reaction force is ground pushes him forward.
- 4. No.
- 5. Action and reaction forces always act on different bodies in opposite directions.
- 6. Action and reaction forces are equal in magnitude.
- 7. Newton's third law.
- 8. Because the forces of action and reaction are small.
- 9. Newton's third law.
- 10. The force of action is a swimmer pushes the water backwards with his hands and feet. The water pushes the swimmer forward with the same force is the force of reaction.