

ii. Newton's second law

of motion

PRISM WORLD

Std.: 9 Date:	(English)	Science 1	Marks: 40 Time: 2 hrs	
Chapt	er: 1 to 5			
Q.1 (A)	Write the correct alternativ	e :	(5)	
1)	•	current. should be semi closed None of the above		
2)	A car is moving with a velocit	y of 50km/hr for 5 hours, is an example of		
	a. zero accelerationc. negative acceleration	b. positive accelerationd. retardation		
3)	<u>-</u>	n, givesions as basic radical. c. $\mathrm{NH_3}^+$ d. $\mathrm{H_2O}^3$		
4)	Give an example for transfor	mation of electrical energy into chemical energy.		
5)	a. Secondary Cellc. Primary CellName a polyatomic elementa. Heliumb. Neon	b. Electric lamp d. Engine c. Ozone f d. Argon Dreams		
	Answer the following :		(5)	
1)	Find the odd one out		(0)	
,	Nacl, CaCl ₂ , KBr, LiCl.			
2)	Complete the correlation : Nitrogen : N :: : Ne			
3)	State True or False			
O,	The bond formed in NaCl is an ionic bond where Na forms anion and Cl forms cation.			
4)	Match the Columns :			
,	Column "A"	Column "B"		
	i. Newton's first law of motion	a. Motion of rocket		

been hit by the striker

b. Only the carom coin at the bottom of a pile moves on

iii. Newton's third law of	c. In a high jump athletic event, the athletes are made
motion	to fall on a sand bed

5) Name the following

Bivalent acidic radicals.

Q.2 Give scientific reasons (any two)

(4)

- 1) It is easier to stop a tennis ball as compared to a cricket ball, when both are travelling with the same velocity.
- 2) A small amount of electrolyte is added during electrolysis of water.
- 3) While driving a nail into wood, the hammer is taken backward.

(B) Answer the following (any three):

(6)

- 1) If in carrying a electric charge of 8 coulombs between two points in a circuit, 12 joule of work is done, find the P.D between the two points.
- 2) Give the reactions for following

Ammonia dissolved in water is directly added to nitric acid solution.

3) Explain the term 'radicals'.

4) Write a short note

Valency



5) Distinguish between:

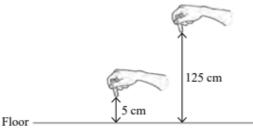
Voltmeter and Ammeter

Q.3 Answer the following questions. (Any five)

(15)

- 1) What happens to speed, velocity and acceleration when an object moves in a circle with uniform speed?
- 2) a. How many molecules of water are there in 36 g of water?
 - b. How many molecules of H₂SO₄ are there in 49 g of the sample?
- 3) What is unified mass. Write another name of united mass, Its symbol and value in kilogram.
- **4)** Magnesium and sodium atoms have same outer most orbit but magnesium atom is smaller than sodium atom. Explain
- 5) What is speed? State its units and types.

6) The following figures show two chalks being dropped from two different heights.



Answer the following questions.

- a. Is there a difference in the results of the two activities?
- b. If so, why?
- c. What is the expression for potential energy?
- 7) Explain why copper is used on a large scale for making electric wires?
- 8) Complete the following table

Sl No	Acid	Number of H ⁺ ions obtained from one molecule
1	HCl	
2	HNO_3	
3	H_2SO_4	
4	H_2CO_3	
5	H_3BO_3	
6	H_3PO_4	

sm

Q.4 Answer the following questions. (Any one)

(5)

- 1) M is a bivalent metal. Write down the steps to find the chemical formulae of its compound formed with the radical Sulphate and Phosphate.
- **2)** Take 5 examples from your surroundings and give explanation based on Newtons laws of motion.