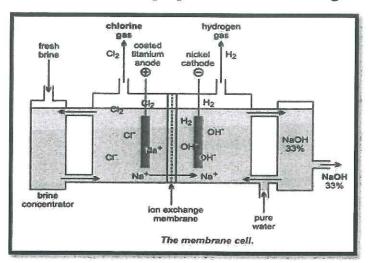
6. This table summarizes the reaction of a number of pairs of solution

Reacting solution	Sodium chloride	Sodium sulphate	Sodium carbonate					
Silver nitrate	I	A white precipitate	A white precipitate					
	>	of silver sulphate	of silver carbonate					
		forms	forms					
Barium chloride	No reaction	II	A white precipitate					
			of barium					
			carbonate forms					
Copper chloride	III	No reaction	IV					

Several of the spaces have been filled with descriptions of what happens when the solutions are mixed. Give similar statements for the spaces I to IV to describe the reactions which occur.

(4 marks)

7. The diagram below shows industrial preparation of chlorine gas



- a) Write the balanced chemical equation which occurs at the anode and cathode during electrolysis of sodium chloride solution. (2 marks)
- b) What purpose does chlorine and sodium hypochlorite serve in the paper and pulp industry? (2 marks)
- 8. Complete the diagrams for this reaction.

(2 marks)

9. The formula for ethanoic acid is CH3COOH. Draw a diagram of it in the space provided in the answer booklet and label the functional group. 10. Propan-1-ol is warmed with ethanoic acid to which a few drops of concentrated sulphuric acid has been added. a) Write an equation for the reaction that occurs. (1 mark) b) To what group of organic compounds does the organic product belong? (1 mark) c) Why is it necessary to add the concentrated sulphuric acid? (1 mark) 11. Complete the following equation by naming the compound formed. + NaOH (2 marks) 12. Write an equation for the dehydration of ethanol. 13. How does a breathalyzer work? (2 marks) [15 marks] STRAND 5 CONSUMER CHEMISTRY This strand has 8 Questions. Circle the letter of the best answer in the Answer Booklet for Questions 1 – 3. Write the answer for **Questions 4 – 8** in the space provided in the **Answer Booklet**. 1. Penicillin is an example of A. Antibiotics B. Antacids C. Antipyretics D. Analgesics (1 mark) 2. The basic steps for extraction and processing of fats and oil in correct order. A. Extraction, Refining, Bleaching, Deodorization

(1 mark)

B. Extraction, Refining, Deodorization, Bleaching

C. Extraction, Bleaching, Refining, DeodorizationD. Extraction, Deodorization, Refining, Bleaching

U.	AA TT	at is the general formula of annilo acids:	
	1	A. CHON	
	I	3. NH <sub>2</sub> RCCOOH	
	(	C. NH <sub>2</sub> RCOOH	
	Ι	D. CHO	(1 mark)
4.	Amı	nonium sulphate is a common soil fertilizer.	
	i.	What is the formula of ammonium sulphate?	(1 mark)
	ii.	What nutrient does this fertilizer supply to the soil?	(1 mark)
	iii.	Ammonium sulphate increases soil acidity. Name a common	agricultural
		chemical which can reduce soil acidity.	(1 mark)
5.	Give	the main components of dried rootstocks of kava.	(1 mark)
б.	Ami	no acids can act as both an acid and a base. Briefly account fo	or this
	stat	ement.	(2 marks)
7.	Clas	sify the following illegal drugs as a depressant, stimulant or be	oth.
	i.	Heroin	
	ii.	Marijuana	
	iii.	Cocaine	
	iv.	Amphetamines	(4 marks)
3.	Des	cribe the cleaning actions of soaps and briefly explain why soa	p cannot lather
	in h	ard water.	(2 marks)

THE END

## PERIODIC TABLE OF THE ELEMENTS

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mass number of most stable isotope.

Atomic number
symbol of element
Relative atomic mass