

STUDENTS NAME: ..... STREAM: .....

SIGNATURE: .....



# STUDYSPHERE EXAMINATION BOARD

## S.2 CHEMISTRY HOLIDAY PACKAGE

### INSTRUCTIONS:

**Attempt all the items**

### ITEM 1

In the world, we are surrounded by matter, a book is a matter, a computer is a matter, food is also a good example of matter. Sometimes matter may be hard to identify. For example air is a matter but it is so thin compared to other matter like books, computers, and food. We sometimes forget air as an example of matter.

Task:

YOUR PARTNERS IN ACADEMIC EXCELLENCE

With a reason(s), identify if the following are matter or not:

- i. Love
- ii. The moon
- iii. An idea of new invasion
- iv. Bread
- v. **Pancakes**

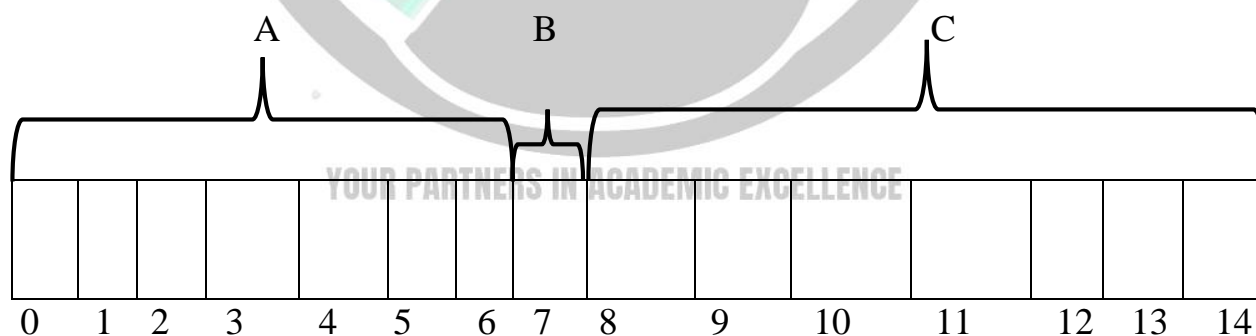
**Item 2**

A group of learner were given a range of liquids by their chemistry teacher and were asked to find out ,using litmus solution, if they were acidic, neutral or alkaline

(a) Complete the following table to show your expected results

Test liquid	Color in red litmus solution	Color blue litmus solution	Acid, neutral or alkaline
Vinegar	Red	Red	Acid
Distilled water	Red		
Washing soap		Blue	Alkali
Lemon juice	Blue		
Alcohol	Red	Blue	

(b) A universal indicator is a very useful may of finding out not only if the liquid is an acid or base but also how strong the acid of base is the indicator changes the color and this color is matched against a number on the chart like the one shown below

**Task**

(a) Complete the labels A,B and C

- (b) Draw an arrow showing the increasing degree of acidity and alkalinity of solutions

### Item 3

Read the passage below

Immaculate a s.1 students was required to prepare a salt solution in the laboratory. she wrapper her sweater around her waist, picked on her books and ran to the laboratory.

On entering the laboratory, she knocked a table with glassware spilling a colorless liquid. Her books fell into a pool of the colorless liquid which the glass fell on the floor and broke.

Immaculate tried to collect the broken pieces of glass. The pieces cut her fingers while the books were burnt by the liquid .in pain, she rushed to wash the figures using water and in the process, the sweater around the waist pulled down a beaker of hot water from the table that poured on her leg

### Task

- (a) From the above passage, what are the errors that immaculate committed?
- (b) How could immaculate have avoided the accident?
- (c) Using the above story ,what rules should be enforced to ensure safety in laboratory

**END**

**\*\*MERRY CHRISTMASS\*\***