

Name.....Student's No.....

Signature.....Signature.....

545/1

Chemistry.

Theory.

2 hrs

Nov-2022.

CHEMISTRY DEPARTMENT

Uganda Certificate of Lower secondary education

END OF TERM 3 EXAMINATIONS

Chemistry

S.2

2 hours.

INSTRUCTIONS.

*This paper consists of **two** sections **A** and **B**. Attempt **all** the questions in this sections. Section **A** consists of questions that require **short responses** or **short answers** while section **B** requires you to write **detailed responses**.*

No.	Marks	Comment.
1		
2		
3		
4		
Total.		

SECTION A.

Attempt all questions in this section

1.Honey bee sting (bee venom) causes sharp pain , itching and swelling. Use of baking soda is one of the effective remedies for bee stings. Baking soda paste is made using water, and then a thick layer of paste is applied on the affected area with a bandage.



Figure 1

Explain briefly why the sharp pain, itching and swelling caused by bee sting are reduced with application of baking soda. (03 marks)

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2.One of S.2 students prepares doughnuts on weekends, which he supplies to the school canteen. Students who bought the doughnuts complained about the small sized doughnuts at first . After studying about one of the concepts in topic 1 of S.2, he then included concentrated lemon juice and soda bicarbonate among the ingredients for preparing the doughnuts. Resultant doughnuts were large sized with light airy texture as shown in figure 2 below.



Figure 2

Explain the reaction that made the resultant doughnuts to become large sized with light airy texture. (04 marks)

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3.Spirit, an alcoholic liquid is one of the contents of many aftershave products used in saloons which are applied in heads after shaving off the hair.

(a) Using particle theory of matter, briefly explain why you feel a sensation of coldness when aftershave product containing spirit is immediately put in your head. (03 marks)

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(b) State why many aftershave products contain some percentage of spirit. (01 marks)

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SECTION B.

Present your work neatly.

4. The National Environment Management Authority (**NEMA**), has organised a two days students workshop to take place at Munyonyo resort hotel to discuss key issues concerning about conservation of environment.

On day 1, the programme drafted on paper has a key statement to be addressed which reads “ ***Today's society in view of modernisation has neglected the mother nature of water, which has ultimately cost us on health. This needs urgent solutions*** “

Prepare a speech you would deliver at the workshop about the key statement.

(20 marks)