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- Index.
- Language •
- General •
- Business -
- Science •
- Mathematics And Applied Science •
- Home Economics •
- Civil And Mechanical

Chemistry Paper 3A WASSCE (SC), 2022

- Subject Home
- 1A
- 2A
- 3A
- 1B
- 2B

Menu

General Comments

Weakness/Remedies

Candidate's Strength

Question 1A

A is an aqueous solution of lodine. B is 0.100 mol dm-3 sodium trioxothiosulphate (III)

a. Put B into the burette. Pipette 20.0 cm3 or 25. 0 cm3 of A into a conical flask. Add E from the burette until the reddish-brown colour fades to pale yellow, then add a few drops of starch indicator to obtain a dark blue solution. Continue adding B slowly from the burette until one drop of B causes the blue colour to disappear, leaving a colourless solution.

Repeat the titration to obtain concordant titre values.

Tabulate your results and calculate the average volume of B used.

The equation for the reaction is:

$$2Na_2S_2O_{3(aq)} + I_{2(aq)} \rightarrow Na_2S_2O_{6(aq)} + 2NaI_{(aq)}$$

b. From your results and the information provided, calculate the:

Concentration in mol dm-3 of iodine in A;

ii. mass in grammes of iodine in 1.00 dm3 of A. [l=127.0]

[17 marks]

Observation

Majority of the candidates responded to this question and their performance was above average.

In part (a), majority of the candidates carried out the titration experiment correctly; In part (b), majority of the candidates calculated the concentration in mol dm-3 of iodine in **A** and mass of iodine in 1.00 dm3 of **A**.

The expected answers include:

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Yaw Boadu-Ayeboafoh

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- 1. Understanding the eBook 14 Waec Chemistry Paper 3 Answer
 - The Rise of Digital Reading 14 Waec Chemistry Paper 3 Answer
 - Advantages of eBooks Over Traditional Books
- 2. Identifying 14 Waec Chemistry Paper 3 Answer
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
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 - Popular eBook Platforms
 - o Features to Look for in an 14 Waec Chemistry Paper 3 Answer
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from 14 Waec Chemistry Paper 3 Answer
 - Personalized Recommendations
 - 14 Waec Chemistry Paper 3 Answer User Reviews and Ratings
 - 14 Waec Chemistry Paper 3 Answer and Bestseller Lists
- 5. Accessing 14 Waec Chemistry Paper 3 Answer Free and Paid eBooks
 - 14 Waec Chemistry Paper 3 Answer Public Domain eBooks
 - 14 Waec Chemistry Paper 3 Answer eBook Subscription Services
 - 14 Waec Chemistry Paper 3 Answer Budget-Friendly Options

- 6. Navigating 14 Waec Chemistry Paper 3 Answer eBook Formats
 - o ePub, PDF, MOBI, and More
 - 14 Waec Chemistry Paper 3 Answer Compatibility with Devices
 - 14 Waec Chemistry Paper 3 Answer Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 14 Waec Chemistry Paper 3 Answer
 - Highlighting and Note-Taking 14 Waec Chemistry Paper 3 Answer
 - Interactive Elements 14 Waec Chemistry Paper 3 Answer
- 8. Staying Engaged with 14 Waec Chemistry Paper 3 Answer
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 14 Waec Chemistry Paper 3 Answer
- 9. Balancing eBooks and Physical Books 14 Waec Chemistry Paper 3 Answer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 14 Waec Chemistry Paper 3 Answer
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 14 Waec Chemistry Paper 3 Answer
 - Setting Reading Goals 14 Waec Chemistry Paper 3 Answer
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 14 Waec Chemistry Paper 3 Answer
 - Fact-Checking eBook Content of 14 Waec Chemistry Paper 3 Answer
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

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