



Rewarding Learning

ADVANCED SUBSIDIARY (AS)
General Certificate of Education
2015

Centre Number

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Candidate Number

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Chemistry

Assessment Unit AS 3

assessing

Module 3: Practical Examination

Practical Booklet A



[AC133]

FRIDAY 8 MAY, MORNING

TIME

1 hour 15 minutes, plus your additional time allowance.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

Answer **both** questions.

Write your answers in the spaces provided.

INFORMATION FOR CANDIDATES

The total mark for this paper is 24.

Question 1 is a practical exercise worth 8 marks.

Question 2 is a practical exercise worth 16 marks.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.

A Periodic Table of Elements (including some data) is provided.

You may not have access to notes, textbooks and other material to assist you.

Question Number	Marks	
	Examiner Mark	Remark
1		
2		

Total Marks		
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Safety glasses should be worn at all times and care should be taken during this practical examination.

1 Titration

You are required to titrate sodium hydroxide solution of unknown concentration against standard sulfuric acid solution.

You are provided with:

0.1 mol dm⁻³ sulfuric acid solution

sodium hydroxide solution of unknown concentration

phenolphthalein indicator

- Rinse out a burette with the 0.1 mol dm⁻³ sulfuric acid solution.
- Fill the burette with the 0.1 mol dm⁻³ sulfuric acid solution.
- Rinse out a pipette with the sodium hydroxide solution.
- Use the pipette and a pipette filler to put 25.0 cm³ of the sodium hydroxide solution in the conical flask.
- Add 3 drops of phenolphthalein to the conical flask, and titrate with the 0.1 mol dm⁻³ sulfuric acid solution until the end point is reached.

Show your results in a suitable table and calculate the average titre.

Examiner Mark	Remark

[8]

(c) Tests on liquid C

N.B. The water bath should be filled with hot water from a kettle.

Test	Observations
1 To 1 cm ³ of C in a test tube add 1 cm ³ of water.	[1]
2 Put 10 drops of C on a watch glass on a heatproof mat. Ignite it using a burning splint.	[1]
3 Add 10 drops of C to 2 cm ³ of acidified potassium dichromate solution in a test tube. Warm the mixture gently in a water bath.	[2]

Examiner Mark	Remark

THIS IS THE END OF THE QUESTION PAPER

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