



Rewarding Learning

General Certificate of Secondary Education
2014

Centre Number

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Candidate Number

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GCSE Chemistry

Unit 1

Higher Tier



[GCH12]

GCH12

TUESDAY 10 JUNE, AFTERNOON

TIME

1 hour 30 minutes.

INSTRUCTIONS TO CANDIDATES

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

You must answer the questions in the spaces provided. Do not write outside the box, around each page or on blank pages.

Complete in blue or black ink only. **Do not write with a gel pen.**

Answer **all five** questions.

INFORMATION FOR CANDIDATES

The total mark for this paper is 100.

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

Quality of written communication will be assessed in Questions **1(d)** and **2(b)**.

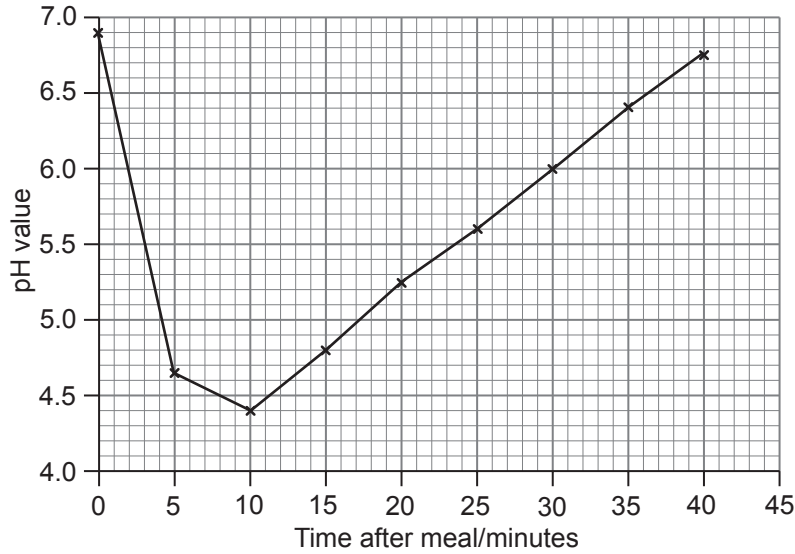
A Data Leaflet, which includes a Periodic Table of the Elements, is included in this question paper.

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20GCH1201

- 1 (a) In an experiment a sample of human saliva was removed from the mouth every five minutes after a meal and the pH values were determined. The graph below shows how the pH values of the saliva changed.



- (i) How were the pH values of the saliva determined in this experiment? [1]
- _____
- (ii) A sample of saliva was tested with phenolphthalein indicator 30 minutes after the meal. State the colour observed when the saliva was tested with phenolphthalein. [1]
- _____
- (iii) When the pH in the mouth is 5.5 or less tooth decay occurs. Use the graph to find the time after the meal at which teeth would start to decay. [1]
- _____

Examiner Only	
Marks	Remark



2 (a) The elements in Group 1 of the Periodic Table are very reactive metals.

(i) Complete the following table.

Group number	Name of group	Number of electrons in the outer shell of an atom
1		

[2]

(ii) State the trend in reactivity in Group 1.

_____ [1]

(iii) What would be observed when a piece of potassium is added to cold water?

_____ [3]

Examiner Only

Marks

Remark



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20GCH1208



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Question Number	Marks
1	
2	
3	
4	
5	

Total Marks	
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Examiner Number

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