UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the November 2005 question paper

0620 CHEMISTRY

0620/05 Practical Test maximum raw mark 40

This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which Examiners were initially instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began. Any substantial changes to the mark scheme that arose from these discussions will be recorded in the published *Report on the Examination*.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the *Report on the Examination*.

The minimum marks in these components needed for various grades were previously published with these mark schemes, but are now instead included in the Report on the Examination for this session.

- CIE will not enter into discussion or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the November 2005 question papers for most IGCSE and GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

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1 Table of results

reaction times completed **[1]** in seconds **[1]**

increasing **[1]** **[3]**

(a) Graph. Points correctly plotted **[3]**, –1 for each incorrect straight line **[1]** **[4]**

(b) fizzing/bubbling **[1]** slowed down **[1]** cleared **[1]** **[3]**

(c) **(i)** Experiment 5 **[1]**

(ii) strongest/more concentrated acid **[1]** more collisions **[1]** **[3]**

(d) marble **[1]** chip visible **[1]** acid used up **[1]** **[3]**

(e) **(i)** e.g. size of chips different **[1]** starting the timer **[1]** **[2]**

(ii) measure mass of chips **[1]** time individual experiments **[1]** **[2]**

[sub total 20]

2 **(a)** colourless/white **[1]** crystals **[1]** **[2]**

(b) liquefies **[1]** condensation at top of tube **[1]**

indicator paper goes red **[1]** then white **[1]** **[4]**

(c) **(i)** white **[1]** precipitate **[1]**

dissolves **[1]** **[3]**

(ii) white **[1]** precipitate **[1]**

clears **[1]** **[3]**

(iii) no change/reaction **[1]** **[1]**

(iv) no change/reaction **[1]** **[1]**

(v) alkaline gas **[1]**, ammonia named **[2]** **[2]**

(d) not a sulphate or halide **[1]** **[1]**

(e) aluminium **[1]** nitrate **[1]** hydrated or similar **[1]** **[3]**

[sub total 20]

[total 40]