UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2011 question paper

for the guidance of teachers

0620 CHEMISTRY

0620/51 Paper 5 (Practical), maximum raw mark 40

Mark schemes must be read in conjunction with the question papers and the report on the examination.

- Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

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1 **(a)** Table of results for Experiment 1
initial and final volumes and differences completed correctly (1)
to 1 decimal place (1)
comparable to Supervisor's report (1) ±4 cm^3 [3]

(b) Table of results for Experiment 2
initial and final volumes and differences completed correctly (1)
to 1 decimal place (1)
comparable to Supervisor's report (1) ±4 cm^3 [3]

(c) bubbles/fizz/effervescence (1) glowing splint (1) relights/brighter (1)
ignore reference to black [3]

(d) oxygen/O_2 (1) [1]

(e) **(i)** colourless **not** clear to pink/purple (1) **or** reverse [1]

(ii) potassium manganate is coloured/is an indicator/owtte (1) [1]
allow not an acid/alkali reaction

(f) **(i)** experiment 1 (1) [1]

(ii) experiment 1 two times the volume of experiment 2 [1]

(iii) solution B/potassium manganate more concentrated/stronger (1) **or** converse
two times (1)
two times as concentrated = 2 [2]

(g) half the value of the result for experiment 2 (1) cm^3 (1)
half the volume of C used (1) [3]

(h) advantage easy to use/quick/convenient/<u>fairly</u> accurate (1)
disadvantage not accurate owtte (1) [2]

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2 **(a)** **(i)** colourless (1) smell (1) [2]

(ii) colourless/pale yellow **and** no smell (1) [1]

(b) **(i)** catches fire/ignites (1)
yellow/blue (1)
yellow flame = 2 [2]

(ii) extinguished/no reaction/owtte (1) [1]

(c) **(i)** yellow/brown/orange/red (1) solution/dissolves (1) **not** ppt. [2]

(ii) yellow/brown/orange (1) [1]

(iii) two layers/rings (1) pink/purple top layer (1) [2]

(d) **(i)** no reaction/no change/remains clear/stays same (1) [1]

(ii) yellow (1) precipitate (1) [2]

(e) brown/yellow/cream/white (1)
precipitate (1) [2]

(f) organic (1) alcohol/named alcohol/fuel (1) **allow** flammable [2]

(g) iodide/I^- (1) **not** iodine [1]

[Total: 40]

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