

**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)  $\pm 4 \text{ cm}^3$  [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)  $\pm 4 \text{ cm}^3$  [3]
- (c) bubbles/fizz/effervescence (1) glowing splint (1) relights/brighter (1)  
**ignore** reference to black [3]
- (d) oxygen/O<sub>2</sub> (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)  $\text{cm}^3$  (1)  
half the volume of C used (1) [3]
- (h) advantage easy to use/quick/convenient/fairly 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<sup>-</sup> (1) **not** iodine [1]

[Total: 40]