UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2010 question paper for the guidance of teachers

0652 PHYSICAL SCIENCE

0652/05 Paper 5 (Practical Test), maximum raw mark 30

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

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1 **(a)** in Table 1.1
correct units for current and voltage ;
sensible readings for current and voltage ;
correct unit for power ;

(b) **(i)** current is about half when both lamps connected ;
voltage is about the same ; [2]

(ii) product of p.d. and current is correct for figures ; [1]

(c) statement fits results ;
the results confirm the original statement ; [2]

(d) **(i)** diagram is correct ; [1]

(ii) reasonable table drawn ; [1]

(e) **(i)** current is greater that 1 lamp used ;
voltage is about the same ; [2]

(ii) product is correct ; [1]

(f) statement fits results ;
the results confirm the original statement ; [2]

[Total: 15]

2 **(a)** litmus blue ;
ammonia ; (max 2)
solid turns white / grey ;
then brown (black acceptable) ;
white smoke ;
litmus red ; (max 3) [max 5]
(allow reference to sulfur dioxide or trioxide / sublimation in lieu of marks allocated to change of solid)

(b) litmus blue ;
ammonia ; [2]

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

(ii) accept precipitate so long as it is **not** white ; [1]

(d) **(i)** green;
brown or similar ; [2]

(ii) blue precipitate **or** dark blue solution ; [1]

(e) iron(II) ; ammonium ; sulfate ; (**one** mark for each correct) [3]

[Total: 15]