MARK SCHEME for the October/November 2010 question paper

for the guidance of teachers

0653 COMBINED SCIENCE

0653/51

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.

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

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| | Page 2 | | | | | | rs' versior | | Syllabu | | Paper |
|---|--------|---|----------------|--|--------------------------|------------|---------------------|----------|---------|--|-------------|
| | | | | IGC | SE – Octo | ber/Nove | ember 201 | 0 | 0653 | | 51 |
| 1 | (a) | A , B , I | | ed in Table D blue ; ourple ; | 9 1.1 | | | | | | [2] |
| | | (ii) | C and | 1 E ; | | | | | | | [1] |
| | (b) | (i) | B , blu | ed in Table ie / black ; brown / vel | e 1.1 ow/orange | e . | | | | | [2] |
| | | (ii) | solutio | - | | σ, | | | | | [1] |
| | (c) | (i) | A , blu | ed in Table ie ; d / orange ; | 9 1.1 | | | | | | [1] |
| | | (ii) | | ion) D ; | | | | | | | [1] |
| | | | | | | | | | | | |
| | (d) | add both protein solutions to starch solution ; test with Benedict's solution amylase produces a positive result for reducing sugar ; | | | | | | g [2] | | | |
| | | | | | | | | | | | [Total: 10] |
| | | | | | | | | | | | |
| 2 | (a) | in Table 2.1 sensible readings for current (less than 1 A) and voltage ; current is about half when both lamps connected ; voltage is about the same (+/- 10 %) ; | | ltage ; | | | [3] | | | | |
| | (b) | pro | duct of | p.d. and o | current is co | orrect for | figures ; | | | | [1] |
| | (c) | the | results | | ne original : | | t ; se correct a | answer) | | | [2] |
| | (d) | | | greater that ect in eithe | an when 1 l r table ; | lamp used | d ; | | | | [2] |
| | (e) | statement fits results ; the results confirm the original statement ; (allow 1 mark if results 'do not fit' and the correct reasoning is also given). | | | n). | [2] | | | | | |
| | | | | | | | | | | | [Total: 10] |
| | | | | | | | | | | | |

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| | Page 3 | | Mark Scheme: Teachers' version | Syllabus | Paper | |
|---|--------|-----------------------|--|--------------------|-------------|--|
| | | | IGCSE – October/November 2010 | 0653 | 51 | |
| 3 | (a) | white sm | vn (black acceptable) ; | s allocated to cha | ange [3] | |
| | (b) | litmus blu ammonia | | | [2] | |
| | (c) | (i) gree | n ; | | [1] | |
| | | (ii) white | e ppt. ; | | [1] | |
| | (e) | iron(II) ; | ammonium ; sulfate ; (one mark for each) | | [3] | |
| | | | | | [Total: 10] | |

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