

CAMBRIDGE
INTERNATIONAL EXAMINATIONS

JUNE 2002

INTERNATIONAL GCSE

MARK SCHEME

MAXIMUM MARK : 30

SYLLABUS/COMPONENT : 0653/5

**COMBINED SCIENCE
(PRACTICAL TEST)**

| | | | |
|--------|--------------------------------|----------|-------|
| Page 1 | Mark Scheme | Syllabus | Paper |
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Mark scheme for Q1

- | | | |
|--------|---|---|
| (a) | brief description and result. Allow cold water. | 2 |
| (b)(i) | pH between 8 and 9 (can be varied to match supervisor) | 1 |
| (ii) | pH has increased | |
| | colour changes described showing move towards dark blue(ONE) | 2 |
| (c) | limewater milky therefore carbon dioxide | 1 |
| (d) | description to include adding P to some acid noting a drop in temp. deciding it is endothermic | 3 |
| (g) | solid is potassium hydrogencarbonate | 1 |

total 10

Mark Scheme for Physics

Q2

Length in mm

Current in mA and bear some resemblance to SV

Good spread of length values, 2 values either side of 400mm

Current decreases with increase length

Six sets of values

5

| Page 2 | Mark Scheme | Syllabus | Paper |
|--------|--------------------------------|----------|-------|
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| | | |
|-------------|-----------------------------------|-----------|
| Graph | Scale sensible | |
| | Plotting for 4 results is correct | |
| | suitable curve | 3 |
| readings | | |
| | reading off from graph correctly | 1 |
| calculation | | |
| | correct calculation | 1 |
| | total | 10 |

Mark Scheme for Q3

| | | |
|--------|--|-----------|
| (a) | suitable temperature/light | 1 |
| (b)(i) | table showing 3 columns | |
| | columns must describe germination & growth | |
| | change in germination is right order | |
| | change in growth is right order | 4 |
| (ii) | weak acid rain reduces growth | |
| | strong acid rain reduces germination/prevents growth etc | |
| (c) | good quality drawing (sharp pencil, at least 5cm) | |
| | root is labelled | |
| | leaves/stem etc labelled | 3 |
| | total | 10 |