

**UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS**  
International General Certificate of Secondary Education

## **MARK SCHEME for the May/June 2008 question paper**

### **0653 COMBINED SCIENCE**

**0653/05**

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.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

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

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

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- 1 (a) (i) good quality drawing, sharp pencil, clear outline; (1)  
leaves obviously wilted, or 1 or more leaves partially shaded (1) [2]
- (ii) lack of water;  
water lost from leaves by evaporation/transpiration;  
OR water not replaced through stem; [2]
- (iii) **stem of twig** clearly shaded in; [1]
- (iv) wood/lignin (provides support);  
provides support even when water is scarce; [2]
- (b) good quality drawing, sharp pencil, clear outline;  
xylem clearly labelled in at least one place; [2]
- (c) wind speed humidity/light intensity/availability of water [1]

[Total: 10]

- 2 (a) Table  
value for  $h_0$  must be in mm;  
complete set (first three columns) of readings (good range) must be sensible;  
mass correctly converted to newtons;  
extension correct for each reading; [4]
- (b) scale is sensible;  
plotting correct;  
line is OK must pass through zero; [3]
- (c) correct from graph; [1]
- (d) yes, (1) straight line force is proportional to extension [2]

[Total: 10]

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- 3 (a) (i) & (ii) **A** and **C** no reaction; allow slight bubbling with **A**  
**B** fizzes; [2]
- (b) **A** and **B** no reaction;  
**C** milky; [2]
- (c) (i) fizzing; [1]  
(ii) white ppt.; [1]
- (d) **A** is sodium carbonate  
**B** is sulphuric acid  
**C** is limewater [1]
- Each correct reason [3]

**[Total: 10]**