

## **MARK SCHEME for the May/June 2007 question paper**

### **0653 COMBINED SCIENCE**

**0653/05**

Paper 5 (Practical), 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.

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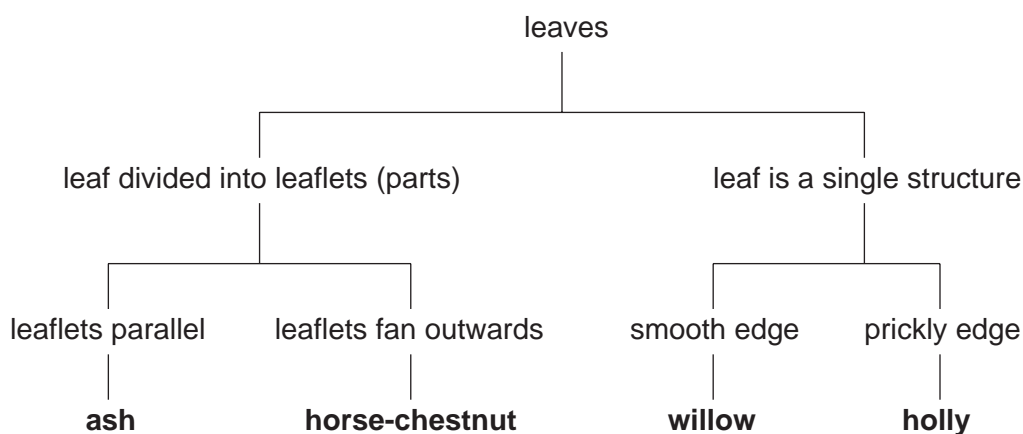


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- 1 (a) bubbles of air appear from lower surface of leaf;  
gases exit through stomata; [2]
- (b) (i) clear drawings;  
with four different shapes of leaves clearly visible and named; [2]
- (ii) any attempt at producing a key (1)  
starting point is 'leaves' (1)  
split into two parts e.g. edges different (1)  
each of above separated again (one mark for each separation) (2)  
correct identification (1) [6]

do not allow vague terms like longer/shorter, bigger/smaller

(an example of a correct answer is shown below)



[Total: 10]

- 2 (a) sensible value for current  
correct unit for current [2]
- (b) value for current less than in (a) [1]
- (c) (i) sensible value for voltage  
consistent in reading values e.g. both to 2 dp [2]
- (ii) similar value to (c) (i) [1]
- (d) (i) R correct for both lamps but must use correct value of I  
correct unit for resistance [2]
- (ii) voltage drop across each lamp and resistance of each is the same within experimental error, therefore lamps are similar. Allow one mark if describes the results [2]

[Total: 10]

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- 3 (a) Black powders accept grey and brown  
X is more finely divided or equivalent [2]
- (b) much bubbling  
relights  
oxygen [3]
- (c) paper is bleached (can't score chlorine mark unless this is given)  
chlorine [2]
- (d) (i) blue or green [1]
- (ii) blue ppt. (not green) insoluble in excess [2]

**[Total: 10]**