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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2009 question paper for the guidance of teachers

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, 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.

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

CIE is publishing the mark schemes for the May/June 2009 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

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(a) readings reasonable (clearly in mm) and entered correctly in column for tissue A readings reasonable and entered correctly in column for tissue B; value for 5 mins in A must not be greater than 80 mm (b) points plotted accurately for tissue A; allow one error smooth curve drawn through points; points plotted accurately for tissue B; allow one error smooth curve drawn through points; [4] (c) (i) liver/tissue C; fastest rate of production of oxygen; [2] (ii) animals liver has many chemical reactions/produce more hydrogen peroxide; therefore it is removed more rapidly/it is removed before poison build up; [2] [Total: 10] 2 (a) red, brown or similar; allow black if recognizes some brown particles [1] (b) (i) black residue; if (a) is black then allow black or no change [1] (ii) dissolves; green solution; turns blue; [3] (c) (i) red brown; filtrate is blue; [2] (ii) black/brown solid; colour fades to colourless or lighter blue, allow fizzing; [2] (d) copper (do not allow 2⁺ oxidation state) do not allow any copper compound; [1] [Total: 10] 3 (a) (b) (i) (ii) Table 5 sets for \boldsymbol{h} and \boldsymbol{V} ; \boldsymbol{h} clearly in mm 1st value of **h** is between 20–40 mm; last value of h is between 100-140 mm [3] (c) 100 - V is correct; assumes V is correct [1] (d) plotting; allow one error [2] line:

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(e) show how found; evaluation from candidates figures;

(f) correctly evaluated to at least 1 dp and not more than 2 dp; accuracy on corrected figure if necessary, allow 20–23 mm;

2]

[Total: 10]