UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

www.papacambridge.com MARK SCHEME for the October/November 2010 question paper

for the guidance of teachers

0610 BIOLOGY

0610/52

Paper 5 (Practical Test), maximum raw mark 40

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 October/November 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

				~
Page 2	Mark Scheme: Teachers' version	Syllabus	Paper	
	IGCSE – October/November 2010	0610	52	

		Page 2			eme: Teachers' October/Noveml			Syllabus 0610	Paper 52	A abac
Question	Mark schei	ne					Additio	onal guidance	A. = accept, R.	= reject, I. = ign
(a) (i)	appearanc	/ smaller than / larger / largest of the apples / more coloured / [2] texture in each box; apples / more coloured / apples / more green / AW [3] difference in each row; AW AW AW						= reject, I. = ignt		
(ii)	W1 wrinkled skin / smaller / more coloured / softest in texture;					[1]	Check Supervisor's report.			
(b) (i)	starch test / dip into iodine solution; expected colour change; reducing sugar make solution / extract of sample; add Benedict's solution; heat; expected colour change; ONE safety feature;					[max 4]		for reducing sug er-bath / lab. coa		l. gloves
(ii)	test starch reducing sugar	W1 – 3 weeks brown; orange / r		W2 – 1 week some black areas; orange;	W3 – fresh more black areas; yellow;	[5]	Check Supervisor's report. Observations in (b)(ii) All boxes completed = 5 Wrong colour or blank box –1.			
(iii)	deduction for starch; deduction for reducing sugar; comparison with storage time as fruit ripens / no difference;					[3]	Deduct	tions in (b)(iii) ba	ased on candida	ate's observations.

	Page 3	Page 3 Mark Scheme: Teachers' version IGCSE – October/November 2010					Paper 52	Papa
uestion	Mark scheme			Additional guidance A. = accept, R. = reject, I. = 19				
(c) (i) (ii)	not wrapped / g 0 10.1 35.5 66.3 93.5 109.5				Syllabus Paper 0610 52 Additional guidance A. = accept, R. = reject, I. = IS All correct = 1. Error carried forward for plot. y-axis – loss in mass / g and x-axis – time / days To fill more than ½ the grid. Allow +/- 0.5 mm square No extrapolation. A. Ruled lines A. lines of best fit. Or smooth curve. Histogram / bar chart A, P and neat ruled columns which do not touch – Max 3			
(iii)		on / fermentation / ev r loss / decay / decon	[1]	I. hydrolysis / osmosis / eating.				
(iv)	 keep in cooler conditions; cover apples; keep dry / well ventilated; under different gases / nitrogen / carbon dioxide / less oxygen / air tight / vacuum; keep separated / in smooth containers; not in sunlight / shade; 				A. keep	o in a refrigerato)r.	
	1							

	Page 4	Mark Scheme: Teachers' IGCSE – October/Novem			Syllabus 0610	Paper 52	.Papa anac	
Question	Mark scheme		Additional guidance A. = accept, R. = reject, I. = Ig					
2 (a)	Drawing: O clear outlin P larger size D two valves Label: hinge / shell /	;	[4]	Syllabus Paper 0610 52 Additional guidance A. = accept, R. = reject, I. = 19 Oyster, freshwater mussel, mussel, clam etc. I. thick wall / coat / testa.				
(b)	Protective / camouflage; hard / tough / rigid; from predators / being ea or waves or depth of wate	aten / prevent drying out / pressure er;	[max 2]					
(c) (i)	mollusc;		[1]	Accept reasonable spelling				
(ii)	length in Fig. 2.1 – 38 to scale line is 25 mm = 0.5 actual size;		[3]		if within range nge 7.4 to 8.2 m	m		
(d)		h CO_2 / carbonic acid; biration;	[max 5]	Some (Acid – r Alkaline 2 marks	ndent marking. Centres used univ red e – blue / purple. s for colour in eau s for explanation.	ch		
			[Total: 15]					