CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2012 series

0610 BIOLOGY

0610/62

Paper 6 (Alternative to Practical), maximum raw mark 40

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 should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2012 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

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Question		Mark Sc	neme	Mark allocation			Guidance	www.PapaCap
l (a)	<u>20;</u>			[1]				
(b) (i)	 A – axes; label and sensible even linear scale; S – size; P – correct plots; L – smooth curve or points joined by rules lines; K – key or other means to distinguish the two sets of data; 			[5]				
(ii)	milk] with i [2] dried milk i AW; [3] credit to us	ncreasing temp slower to clot / f	resh milk quicker to clot /		Must be co	omparative ans	wer	
				Max[4]				

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(c)	results show voccur / reduce judging clottin accurate;	to check method / technique ;				air test alone. verage / mean / ir	ncreased accura	acy.
				Max[2]				
(d)	[2] Increased works slo		ter or decrease in rate /	[3]	Ignore o	ptimum / denatura	ation.	
(e)	equality of ma test filtrate / w biuret reagent (blue) to purpl	iss / volume / sar hey and clots se : / chemicals in re e / lilac / mauve n intensity / desc	parately; eagent;		Mass – a	vater bath / tongs. accept weight.	ts reagents (mil	lons / xanthoprotei
				[Total: 19]				

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				IGCSE – October/N	lovember 20°	12	0610	62	Par
2 (a)	a) (i) O outline; S size; D detail;				[4]		oots or no roots. lesh' alone / root	hairs.	SIND
	(ii)	2 from: (asex anchorage;	cual) reproduction	on / storage / perennation /	[2]	Ignore re		orption as referr	ing to roots and not
(b))	lodine solution / iodine in KI;					ccept 'iodine' alors s solution.	ne.	
(c)	(i)	one appropri	ate cell ringed;		[1]				
	(ii)	mitosis;			[1]	A. anaphase. NOT if anaphase 1 or anaphase 2.			phase 2.
(d))	chromosom nucleus vacuole abs	es visible / no ent / small between lei / cell wall	nd mature cells elongate / rectangular / larger; No visible chromosomes / distinct nucleus; vacuole present / large; cell wall clearly visible;	Max[2]	Answer r covered.	needs to be comp	parative. Both ty	pes need to be
					[Total: 11]				
3 (a))	use oxygen / (soda lime at volume decre drop in press	osorbs) carbon (ease;	dioxide produced / released;	[4]	A breath	e in oxygen.		
(b))		/ glass beads / s (not rotting!) /	other inert substance / no maggots;	[1]				

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(c)	Distance of bubble moved Increases with rise in tempera Decreases with temperature in 35°C is the best / optimum;		[3]				
(d)	maggots respire faster / AW; Activity of enzymes increases AVP e.g. for doubling rate for		Max[2]	Ignore d	escriptions only.		
			[Total: 10]				

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