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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2011 question paper for the guidance of teachers

0610 BIOLOGY

0610/63

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

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

Cambridge is publishing the mark schemes for the October/November 2011 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 2011	0610	63

			Page 2	Mark Scheme: Teachers' ve IGCSE – October/Novembe	Syllabus 0610	Paper 63	abacar	
Question		ion	Mark scheme			Syllabus Paper 0610 63 Guidance NB 0.6 cm exists below zero.		
	(a)	(i)	7.0 to 9.8;		[1]	NB 0.6 cm exists	below zero.	
		(ii)) 11.6 [11.67] to 12.6;			Mark on table. Fo	ollow from (a) (i) ecf from (a	ı) (i).
	(b)	(i)	reflexes;	ne faster response / quicker / better urally right or left handed / dominant ex pathway;	Max[1]	e.g. impulse alor motor neurone Accept reaction t	ime as given in the questioning sensory neurone to brain time + comment about both tunqualified – insufficient	/ CNS to
		(ii)	wind; quiet surroundings – 'no distra seated or standing throughout	d; TE / dropped not thrust; ons e.g. humidity, temperature, no actions' / no eating or drinking; a / arm or body / hand position; I thumb / thumb position / thumb at	Max[3]	Ignore height fro Ignore same placenvironment Accept distance Ignore addition of	catcher / catcher is unawar	
	(c)	(i)	left hand 0.18 (sec); right hand 0.15 / 0.16 (sec);		[2]	if incorrect units	l s. ecf from 1(a) (ii) e.g. cm – Max 1 places given – ignore and c	heck 2dp

Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – October/November 2011	0610	63

	Page 3	Mark Scheme: Teachers' IGCSE – October/Novemb			Paper 63	
		1000L October/Novemb	2011	0610	33	C
Question	Ма	rk scheme	Mark allocation		Guidance	Mbr
(ii)	shorter / better / faster reaction	r (ecf) / speed of nerve impulses	Max[2]	producing quicker Ignore just 2 figu	nt hemisphere of brain being dom er co-ordination	inant /
(d)	two sets of data – one with stimulant and one without; more than one student or group of students involved; same or similar age / gender / fitness / arm length; time for drug to take effect; repeats; set amount of stimulant; taken set period before test; controlled (same) conditions e.g. time of day; safety factor;			Ignore irrelevant Accept even if re 'cup of tea' is ac e.g. no wind / no	ferral is to trial with stimulant only ceptable. distractions. Ignore "fair test" vironment or with dose size / quar	
	idea of comparing 2 results; reference to use of a control	qualified;	Max[3]	Ignore 'control' a If different invest		
			[Total:13]			

Page 4	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – October/November 2011	0610	63

			Page	e 4			e: Teachers' v		Syllabus 0610	Paper 63	www.PapaCambride
Question	n			Mark	scheme			Mark allocation		Guidance	ambrid
2 (a)		Drawing:- O - clear line for correct outer shape and no shading and size longer than photo (70+ mm); D - distinct fruitlets touching each other; min. 4 across and 5 down, max. 8 × 10; S - remainder of stigma / style at least 3; C - calyx attached with minimum of 2 sepals and maximum of 5 shown;					nm); er; min. 4 t 3;		Allow 3 small ga	o O and label for some	•
	ı	Label:– frui	tlet / stigm	a / style / s	sepal / ca	lyx / perica	arp;	Max [5]	Ignore stalk / ste	m / fruit.	Labels – Max [1]
(b) ((i)	50–59	Ta 60–69	lly of fruitle 70–79	ets in eacl 80–89	h fruit 90–99	100+			orrect;	f no bars present)
		-		1	1	1 -		[3]			

Page 5	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – October/November 2011	0610	63

		Page 5	Mark Scheme: Teachers' ve IGCSE – October/November		Syllabus 0610	Paper 63	Pattage
Question		Mark	scheme	Mark allocation		Guidano	www. PapaCamb
(ii)	 O – orientation of axes; L – label 'x' number of fruitlets in fruits and 'y' frequency / tally / number of fruits; S – suitable even scale to fill half or more than ½ the grid in both 			'fruitlets in each f centrally under co	r 'x' axis – 'num ruit' and numbe olumns. Tally si		
	P – plot acc B – neat, rugaps;	curacy;	ars of equal width, touching, no		P – accept ± ½ s	·	f from tally chart be <u>ruled</u> (to base)
				[5]	Line graph O ; L a	and S only	
(c)	more in the	ribution / unimodal / middle of range / b extremes / example	ggest class is 70–79 / 60–89;	Max[2]	common (min is '	s have 70–79 / "70 – 79 fruitlets	70–79 is the most
(d)	eat / ingest seeds unha	named example; / consume fruits; armed not digested / n faeces / egested /		Max[2]	Accept bites / cheeat	ews / eats fruit a	and spits seed out / we
				[Total:17]			

Page 6	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – October/November 2011	0610	63

		Page 6	Mark Scheme: Teachers' ve IGCSE – October/November		Syllabus 0610	Paper 63	Papac
Question		Ма	rk scheme	Mark allocation	Syllabus Paper 0610 63 Guidance Draw and label Ignore LS instead of TS		
3 (a) (i)		bundles; vascular bundle divid	e minimum of 4 distinct vascular ded correctly into two for x and p; lled and phloem on outside labelled;	[3]	Draw and label Ignore LS instea		
(ii)		central vascular stra (xylem) central – sta xylem and phloem c	r like and (phloem) in between;	[3]	Ignore LS instea	d of TS	
(b) (i)	sucrose;			[1]	Ignore cane-sug	ar	
(ii)	starch;			[1]	Ignore glycogen		
(c)	add iodir turns bro	ne solution;	regions and test each one; to blue / blue – black / black / starch is present;	Max[2]	given = 0 crush / grind alo	potassium iodide / drops of on ution	
				[Total:10]			