UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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for the guidance of teachers

0608 21ST CENTURY SCIENCE

0608/03

Paper 3 (Written - Core), maximum raw mark 60

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 October/November 2009 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

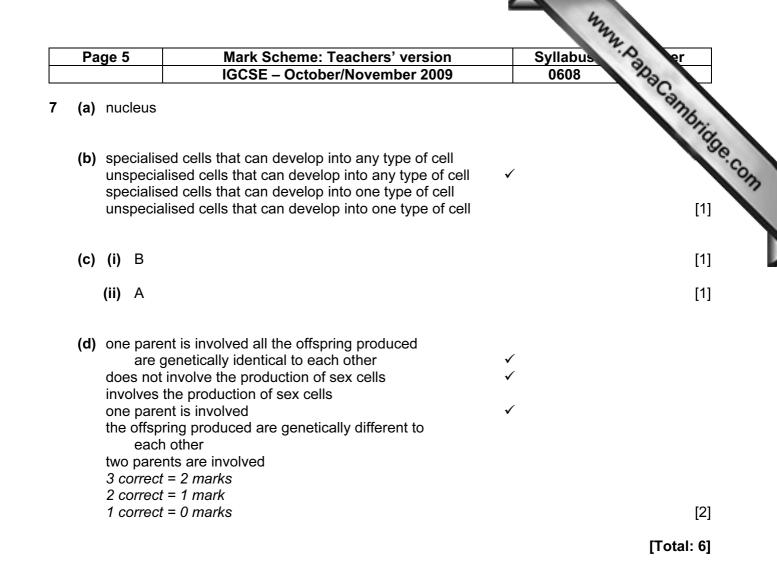
Page 2	Mark Scheme: Teachers' version	Syllabus er
	IGCSE – October/November 2009	0608 23
(a) 1 78 21 <i>all corre</i> <i>two or o</i>	ct = 2 ne correct = 1	Syllabus 0608 Bubble Bu
(b) (i) (8 + = 9	12 + 9 + 10 + 6)/5 = 45/5	[2]
(ii) 6 to allo	12 w 12 to 6	[1]
(iii) the	range is smaller / they are closer	[1]
	k for each molecule, circles must touch	[2] [Total: 8]
(a) polyther accept (ne is more flexible so less likely to break DRA	[1]
environr	nental impact of making the material ✓ nental impact of using the product nental impact of disposing of the product ✓	[2]
(c) plasticiz	er	[1]
one	suitable article (no mark) e.g. tennis racquet mark each for old and new material e.g. wood ar erials must match article	nd carbon fibre [2]
(ii) corr	ect advantage e.g. stronger	[1]

Page 3		Mark Scheme: Teachers' version Syllabus	
	Ŭ	IGCSE – October/November 2009 0608	Do-
			°C.
(a)		rocarbon	36
		pohydrate	1
		no acid	
		orrect = 2	
	one	or two correct = 1	pacambrid [2]
(b)	gluc	ose	[1]
(c)	liver	,	
	urea	a;	
	kidn		
	urine		
		orrect = 3	
		correct = 2	101
	T CO	prrect = 1	[3]
			[Total: 6]
(a)	crus	.t	
• •	man		
	One	mark for each correct label.	[3]
(b)		nger buildings 🗸	
	talle		
		erent country	
		ergency plans 🗸	
		vent quakes	
	One	e mark each. Deduct a mark for each extra tick.	[2]
	<i></i>		
(c)		Any two of the following 'fits' or 'matches':	
		continents;	
		fossils;	
		mountain chains;	
		rock types One mark for each correct response. If more than 2 given, mark first two only	. [2]
		One mark for each confect response. In more than 2 given, mark list two only	. [2]
	(ii)	cannot detect continents move;	
		Wegener was an outsider to the community of geologists;	
		too big an idea on limited evidence;	
		simpler explanations worked as well.	
		any one	[1]
			[Total: 8]

Pa	ge 4				: Teachers'		Syllabus	· A er
			IGC	SE – Octo	ber/Novemb	oer 2009	0608	1000
(a)	(i)	А						amb.
	(ii)	С						110
(b)	(i)	ionisi	ng					ww.papacambrid
			nunication cles vibrate	•	√			[1]
	(ii)		waves in 850 / 'are more in		reater intens	ity owtte (bec	ause it heats food	faster) [1]
(c)	(i)	Aruna Bilal	а	•	√			
		Chen						
			mark each. I	Deduct a n	, nark for each	extra tick.		[2]
	(ii)	Aruna Bilal	а					
		Chen David		,	 Image: A start of the start of			[1]
								[Total: 7]
(a)								
(~)								
			correct: 2 rect: 1					[2]
	<i>(</i> 1)		down (1); ch					[2]

(ii) 30 years Must have indication on graph or explanation in space [1]

[Total: 5]



Page 6	Mark Scheme: Teachers' version	Syllabus er
	IGCSE – October/November 2009	0608 732
(a) skin	\checkmark	9mb
teeth sweat	\checkmark	10
urine		
bone		Syllabus 0608 Parkannin 2 2
(b) produce	e antibodies; lies) present before infection	
(anubou	les) present before mection	[2]
(c) (i) incr	reased	[1]
	re people are having the MMR jab	,
	er people are having the MMR jab one is having the MMR jab	\checkmark
	same number of people are having the MMR jab	[1]
(iii) For		
	asles can cause disability or death; uces disease in population;	
Aga	ainst:	
	of autism;	
•	n/trauma to child ed a for and against for mark	
	ept any reasonable idea	[1]
(iv) circ	le around 'autism'	[1]
		[Total: 8]
(a) species		
evolved fossils	, ,	[3]
(b) E		
D		
D D		
all corre	act = 2	
3/2 corr	ect = 1	[0]
1 correc	t = 0	[2]
		[Total: 5]

[Total: 5]