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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2009 question paper 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.

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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	,
	IGCSE – October/November 2009	0608	

1 (a) 1

78

21

all correct = 2

two or one correct = 1



(c) O

accept ORA

one mark for each molecule, circles must touch [2]

2 (a) polythene is more flexible so less likely to break [1]

- (c) plasticizer [1]
- (d) (i) any suitable article (no mark) e.g. tennis racquet one mark each for old and new material e.g. wood and carbon fibre materials must match article [2]
 - (ii) correct advantage e.g. stronger [1]

[Total: 7]

[Total: 8]

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	Pa	ge 3	Mark Scheme: Teachers' version Syllabus	er
			IGCSE – October/November 2009 0608	8-
3	(a)	hydroc carboh amino all con one or	arbon ydrate acid ect = 2 two correct = 1	a Cambridge
	(b)	glucos	e	[1]
	(c)		s; ect = 3 rect = 2	
		1 corre	ct = 1	[3]
				[Total: 6]
4	(a)	crust mantle One m	core ark for each correct label.	[3]
	(b)	taller differe emerg prever	er buildings Int country Int country Int country Int country In country	[2]
	(c)	fo: me ro	y two of the following 'fits' or 'matches': ntinents; ssils; puntain chains; ck types	
		(ii) ca	ne mark for each correct response. If more than 2 given, mark first two only. nnot detect continents move; egener was an outsider to the community of geologists; b big an idea on limited evidence;	[2]
		sir	npler explanations worked as well. y one	[1]

[Total: 8]

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Page 4	Mark Scheme: Teachers' version	Syllabus	er
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- 5 (a) (i) A
 - (ii) C
 - (b) (i) ionising communication particles vibrate

[1]

(ii) Microwaves in 850W have greater intensity owtte (because it heats food faster) Allow 'are more intense'

[1]

(c) (i) Aruna

Bilal

Chen David

One mark each. Deduct a mark for each extra tick.

[2]

(ii) Aruna

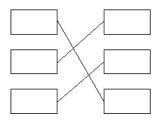
Bilal

Chen David

[1]

[Total: 7]

6 (a)



All 3 links correct: 2

1 or 2 correct: 1

[2]

(b) (i) goes down (1); change gets less and less with time (1)

[2]

(ii) 30 years

Must have indication on graph or explanation in space

[1]

[Total: 5]

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Page 5	Mark Scheme: Teachers' version	Syllabus	r
	IGCSE – October/November 2009	0608	

7 (a) nucleus

- (b) specialised cells that can develop into any type of cell unspecialised cells that can develop into any type of cell specialised cells that can develop into one type of cell unspecialised cells that can develop into one type of cell
- [1]
- (c) (i) B [1]
 - (ii) A [1]

3 correct = 2 marks 2 correct = 1 mark

1 correct = 0 marks [2]

[Total: 6]

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[Total: 5]

Page 6	Mark Schome: Teachers' version	Syllabus
rage o		0608
teet swe urin	√ n at √ e	Syllabus W. Dan er 0608
		[2]
(c) (i)	increased	[1]
(ii)	fewer people are having the MMR jab no-one is having the MMR jab	√ [1]
(iii)	measles can cause disability or death; reduces disease in population; Against: risk of autism; pain/trauma to child need a for and against for mark	[1]
(iv)	circle around 'autism'	[1]
		[Total: 8]
evol	ved;	[3]
3/2	correct = 1	[2]
	teeth swe uring bond (b) prod (anti- (c) (i) (ii) (iii) (iv) (a) spec evol foss (b) E D D D all c 3/2 ((a) skin teeth sweat virine bone (b) produce antibodies; (antibodies) present before infection (c) (i) increased (ii) more people are having the MMR jab fewer people are having the MMR jab no-one is having the MMR jab the same number of people are having the MMR jab the same number of people are having the MMR jab (iii) For: measles can cause disability or death; reduces disease in population; Against: risk of autism; pain/trauma to child need a for and against for mark accept any reasonable idea (iv) circle around 'autism' (a) species; evolved; fossils