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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2012 question paper for the guidance of teachers

0460 GEOGRAPHY

0460/21

Paper 2, 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.

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

Cambridge is publishing the mark schemes for the May/June 2012 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

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Page 2	Mark Scheme: Teachers' version	Syllabus	
	IGCSE – May/June 2012	0460	
1 (a) school/e motel golf cour club hospital/ hotel substatic	rse medical on/power line/power/electricity	and	idge con

police station

post office

reservoir/dam

railway

2 functions = 1 mark [3]

(b) (i) trigonometrical station/point/pillar [1]

(ii) north east [1]

(iii) 4000 – 4200 (metres) [1]

(iv) 979826/7 [1]

(v) 1370.7 metres (allow 1320.7) [1]

(c) (i) correct position of Hunyani Range correct position of hill slope facing west (4 options) [2]

(ii) cultivation [1]

(d)

	Fernlea (0380)	Hunyani (0680)	Both these areas	Neither of these areas
railway		✓		
huts and buildings	✓			
power line	✓			
river flowing west		✓		
wide tarred road				✓

More than one tick per row = 0

[5]

	Page 3		<u> </u>	Mark Scheme: Teachers' version	Syllabus	r
	<u>. u</u>	ge e		IGCSE – May/June 2012	0460	
	(e)	meanders/bends islands/braiding rapids, (rapids and waterfall = 0) wide/100m-300m variable width flows N/NNE/NE tributaries gentle gradient				Cambridge.
2	(a)	(i) (ii)	on w nam more coas diffe defo diffe diffe	ng the Equator/0° ween 10° N and 3–10° S west (coast) ned country re north of equator stal erent dates orestation has occurred erent degrees of accuracy erent definitions of TRF erent survey methods/done by different people		[3] [2]
	(b)	(i)	hot v	wet climate (encourages growth)		[1]
		(ii)	shed	ds <u>heavy</u> rainfall from leaves (therefore transpiration	n can continue)	[1]
		(iii)	no d	seasons therefore continuous growth dry/cold season therefore no need to lose leaves (at seasons therefore trees lose leaves at different times		[1]
3	(a)	cliff stee scre bar ligh ridg vall pate	s/cragep sloee/rooe rock t cologe/esoey/lov ches	-	ïn valley	[5]
	(b)	free exp rep	ezes ands eated	cracks in rock d action viden/deepen/rocks shatter		[3]

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	Page 4		Mark Scheme: Teachers' version	Syllabus	ľ
			IGCSE – May/June 2012	0460	
4	(a) (i) corr	ect location of D	Syllabus 0460 ADACAMA	5.
	(ii) corr	ect location of L		100
	(iii) corr	ect location of N		[1]
	(b) (i	•	ge (point) I junction/roads meet		[1]
	(ii) rive	r/stream (to provide water)		[1]
	(iii	*the *the avoi not will sout *wa	refore well-drained refore easy to build ds upper/steep slopes on/above the level of the flood plain/valley floor not flood th facing rmer/sunnier development only		[3]
5	` re	finance research facilities government influence quality of life			
	R	educe	mark awarded by one for every tick more than four.		[1]
	ve ho	ertical a orizonta	axis: labelled "number of companies" axis: appropriate scale labelled – should start at zero al axis: has 3 years labelled plotting of three bars	o unless break is indicated	
	A	xes re\	versed max 2 (lines 1 and 4)		[4]

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[2]

[1]

[3]

	Page 5	5	Mark Scheme: Teachers' version	Syllabus	r
			IGCSE – May/June 2012	0460	1
6	(a) (i)	7 ur	e urban areas/100 km across/ <u>big</u> cities ban areas Imed urban areas from the main four		ambri
	(ii)		rainfall/mostly < 500 mm/as low as 250 mm of rain alone = 0		[1
	(b) (i)	in w	arge rivers etter areas ountains therefore wetter		

(c) expense of canal construction/maintenance uses the water supply of other areas potential environmental effects max 2 supplies come from an already dry area Los Angeles and San Diego have 300 – 600 km transfers may require pumping may be evaporation losses may be leakage losses

in mountains therefore good dam sites

(ii) distant from urban areas