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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.

www.PapaCambridge.com Syllabus Page 2 Mark Scheme: Teachers' version IGCSE - May/June 2012 0460

1 (a) school/education

motel

golf course

club

hospital/medical

hotel

substation/power line/power/electricity

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]

Pag	ge 3	Mark Scheme: Teachers' version IGCSE – May/June 2012	Syllabus 0460	1
(e)	mea isla rapi wide vari flow	aight sections anders/bends ands/braiding ids, (rapids and waterfall = 0) le/100m–300m iable width vs N/NNE/NE utaries	Syllabus 0460	Canne
(a)		along the Equator/0° between 10° N and 3–10° S on west (coast) named country more north of equator coastal		
	(ii)	different dates deforestation has occurred different degrees of accuracy different definitions of TRF different survey methods/done by different peop	ole	
(b)	(i)	hot wet climate (encourages growth)		
	(ii) (iii)	sheds heavy rainfall from leaves (therefore trans- no seasons therefore continuous growth no dry/cold season therefore no need to lose leaves at difference no seasons therefore trees lose leaves at difference	aves (at same time)	
(a)	cliffs stee scree bare light ridg valle pate	and/mountains/high fs/crags ep slopes ee/rocks/rocky re rock/lack of vegetation/lack of soil/sparse veget at coloured rocks ge/escarpment/arête (on right) ley/lower ground (on left) ches of vegetation in foreground/on left/on lower all lake/pool/pond		
(b)	free exp repe	ter in cracks in rock ezes pands peated action cks widen/deepen/rocks shatter		

	Page 4			Mark Scheme: Teachers' version	Syllabus	9
				IGCSE – May/June 2012	0460	TO TO
4	(a)	(i)	corre	ect location of D	`	Sapa Cambridge
		(ii)	corre	ect location of L		Tag
		(iii)	corre	ect location of N		[1]
	(b)	(i)		ge (point) I junction/roads meet		[1]
		(ii)	river	r/stream (to provide water)		[1]
		(iii)	*ther *ther avoid not of will r sout *war	gentle slopes 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	5 (a) finance research facilities government influ quality of life		earch ernm	nent influence		
		Red	duce	mark awarded by one for every tick more than four.		[1]
	(b)	vert hor	tical a izonta	axis: labelled "number of companies" axis: appropriate scale labelled – should start at zero al axis: has 3 years labelled e plotting of three bars	unless break is indi	cated
		Axe	es rev	versed max 2 (lines 1 and 4)		[4]

	Page 5		5	Mark Scheme: Teachers' version	Syllabus	2
				IGCSE – May/June 2012	0460	TOO
6	(a)	(i) <u>large</u> urban areas/100 km across/ <u>big</u> cities 7 urban areas 2 named urban areas from the main four		ban areas		ana Cambridge
		(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 ountains therefore good dam sites		[2]
		(ii)	dista	ant from urban areas		[1]
	(c)	use pot sup Los ma ma	es the ential oplies s Ango y requ y be o	of canal construction/maintenance water supply of other areas environmental effects max 2 come from an already dry area eles and San Diego have 300 – 600 km transfers uire pumping evaporation losses		ro1
		ma	y be l	eakage losses		[3]