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.

Page 2	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – May/June 2012	0460	21

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]

	Page 3		Mark Scheme: Teachers' version	Syllabus	Paper
		IGCSE – May/June 2012 0460		0460	21
	n is ra w v fl tr	straight sections meanders/bends islands/braiding rapids, (rapids and waterfall = 0) wide/100m-300m variable width flows N/NNE/NE tributaries gentle gradient			
2	(a) (i	betw on w nam	ng the Equator/0° veen 10°N and 3–10°S vest (coast) ned country re north of equator		
		coa			[3]
	(ii	defo diffe diffe	erent dates prestation has occurred prent degrees of accuracy prent definitions of TRF		
		diffe	erent survey methods/done by different people		[2]
	(b) (i	i) hot	wet climate (encourages growth)		[1]
	(ii	i) she	ds <u>heavy</u> rainfall from leaves (therefore transpiration	can continue)	[1]
	(iii	no c	seasons therefore continuous growth dry/cold season therefore no need to lose leaves (at seasons therefore trees lose leaves at different times	,	[1]
3	c s s b li ri v	upland/mountains/high cliffs/crags steep slopes scree/rocks/rocky bare rock/lack of vegetation/lack of soil/sparse vegetation light coloured rocks ridge/escarpment/arête (on right) valley/lower ground (on left) patches of vegetation in foreground/on left/on lower ground/in valley small lake/pool/pond		[5]	
	fr e re	reezes expands epeated	cracks in rock d action viden/deepen/rocks shatter		[3]

Page 4		4	Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2012	0460	21
4	(a) (i)	corre	ect location of D		[1]
	(ii)	corre	ect location of L		[1]
	(iii)	corre	ect location of N		[1]
	(b) (i)		ge (point) I junction/roads meet		[1]
	(ii)	river	/stream (to provide water)		[1]
	(iii)	*ther *ther avoidate not of will r sout *war	rentle 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	(a) finance research facilities government influence quality of life				
	Re	educe	mark awarded by one for every tick more than four.		[1]
	ve ho	rtical a rizonta	axis: labelled "number of companies" axis: appropriate scale labelled – should start at zero al axis: has 3 years labelled plotting of three bars	unless break is inc	dicated
	Ax	es rev	rersed max 2 (lines 1 and 4)		[4]

P	Page 5		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2012	0460	21
6 (a	n) (i	7 u	g <u>e</u> urban areas/100 km across/ <u>big</u> cities rban areas amed urban areas from the main four		[1]
	(ii	•	rainfall/mostly < 500 mm/as low as 250 mm k of rain alone = 0		[1]
(b) (i	in v	large rivers vetter areas nountains therefore wetter nountains therefore good dam sites		[2]
	(ii	i) dis	tant from urban areas		[1]
(с	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 transfer may require pumping may be evaporation losses		e water supply of other areas al environmental effects max 2 s come from an already dry area geles and San Diego have 300 – 600 km transfers quire pumping evaporation losses		
	n	nay be	leakage losses		[3]