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.

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Page 2	Mark Scheme: Teachers' version	Syllabus	Paper
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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]

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meanders/bends
islands/braiding
rapids, (rapids and waterfall = 0)
wide/100m–300m
variable width
flows N/NNE/NE
tributaries
gentle gradient

[4]

2 (a) (i) along the Equator/0° between 10° N and 3–10° S on west (coast) named country more north of equator coastal

[3]

(ii) different dates
deforestation has occurred
different degrees of accuracy
different definitions of TRF
different survey methods/done by different people

(b) (i) hot wet climate (encourages growth)

[2]

[1]

(ii) sheds <u>heavy</u> rainfall from leaves (therefore transpiration can continue)

[1]

(iii) no seasons therefore continuous growth no dry/cold season therefore no need to lose leaves (at same time) no seasons therefore trees lose leaves at different times

[1]

3 (a) upland/mountains/high

cliffs/crags steep slopes scree/rocks/rocky bare rock/lack of veg

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]

(b) water in cracks in rock

freezes
expands
repeated action

cracks widen/deepen/rocks shatter

[3]

Paper

[4]

Syllabus

				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) junction/roads meet		[1]
		(ii)	river	/stream (to provide water)		[1]
		(iii)	*thei *thei avoid not d will r sout *war	entle 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)	gov	earch	facilities ent influence f life		
		Red	duce i	mark awarded by one for every tick more than four.		[1]
	(b)	vert	tical a izonta	exis: labelled "number of companies" exis: appropriate scale labelled – should start at zero al axis: has 3 years labelled plotting of three bars	unless break is	indicated

Axes reversed max 2 (lines 1 and 4)

Mark Scheme: Teachers' version

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Page 5	Mark Scheme: Teachers' version	Syllabus	Paper
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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 [1] (ii) low rainfall/mostly < 500 mm/as low as 250 mm [1] lack of rain alone = 0 (b) (i) on large rivers in wetter areas in mountains therefore wetter [2] in mountains therefore good dam sites (ii) distant from urban areas [1] (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 [3]