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.dynamicpapers.com

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]

\	MAMIANAN	Ara Aam
10/10/10/ (11	///2///////////////////////////////////	
*********	ynamicpap	CI O. COITI

[3]

Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – May/June 2012	0460	21

(e) straight sections meanders/bends islands/braiding rapids, (rapids and waterfall = 0) wide/100m-300m variable width flows N/NNE/NE tributaries [4] gentle gradient 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 [2] different survey methods/done by different people **(b) (i)** hot wet climate (encourages growth) [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 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

www.dynamicpapers.com

Page 4	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – May/June 2012	0460	21

4	(a) (i)	correct location of D	[1]
	(ii)	correct location of L	[1]
	(iii)	correct location of N	[1]
	(b) (i)	bridge (point) road junction/roads meet	[1]
	(ii)	river/stream (to provide water)	[1]
	(iii)	on gentle slopes *therefore well-drained *therefore easy to build avoids upper/steep slopes not on/above the level of the flood plain/valley floor will not flood south facing *warmer/sunnier *as development only	[3]
5	go qu	ance search facilities vernment influence ality of life educe mark awarded by one for every tick more than four.	[1]
	ve ho	rtical axis: labelled "number of companies" rtical axis: appropriate scale labelled – should start at zero unless break is indicated rizontal axis: has 3 years labelled curate plotting of three bars	
	Ах	es reversed max 2 (lines 1 and 4)	[4]

www.dynamicpapers.com

Page 5	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – May/June 2012	0460	21

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]