CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

## MARK SCHEME for the October/November 2012 series

## 0460 GEOGRAPHY

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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 should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2012 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



Page 2			Mark Scheme	Syllabus	Paper		
			IGCSE – October/November 2012	0460	21		
(a) (	(i)	narro	ow tarred/Old Road,		[1]		
(	ii)	aerodrome landing area/airport/airstrip,					
(i	ii)	spot	height,		[1]		
(i	v)	quari	ry/excavation,		[1]		
(	v)	minir	ng/prospecting trench,				
		In (a)	) if more than one answer is given and one is wror	ng then the answer	· = 0. [1]		
(b)	(i)	north	to south,		[1]		
(		angle dend build highe	ower in north/wider in south, e of tributaries/confluences, lritic pattern, up of water behind dam, er land in north, ours make V shape upstream,		[2]		
(i	ii)	3350	9 – 3450 (metres),		[1]		
(i	v)	986495,					
(c)	(i)	corre	ect position of Chantalitiki river: 89 – 92cm from lef	t,	[1]		
(	ii)	corre	ect position of wide tarred road: 34 – 38cm from lef	īt,	[1]		
(i	ii)	corre	ect position of building: 26 – 29cm from left,				
		Arrov proje There If the	the ruler device to measure the answers. ws should end within about 1cm of the profile. Me ects to. e should be no ambiguity. ere is more than one response and one is wrong th v labels by names or question numbers.	·			
t t t	spar som track one no ta netw	e nuc s/cu (s/cu (othe arred vork/r	buildings, olated/dispersed/scattered (allow sparse populatio cleation/clusters, t lines/game trails, er" road, roads, many junctions/interlinked, tercourses,	n but not low popu	ulation),		
	pans		,				
F	Res	erve	one for each category		[4]		

Page 3	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2012	0460	21

(e) west gentle, ) west gentler/east steeper east steep, ) = 1 west lower/east higher, 620m/over 620m in east, 520 – 540m in west, plateau in west,

	Page 4		Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2012	0460	21
2	<b>(a)</b> 5,				[1]
	(b) (i)	Em	ostly within intensity 8 area or adjacent ocean,		[1]
	(ii)	any	area within intensity 6 area shaded,		[1]
	(iii)	high cent som	centric pattern, est in centre/effects get less further from epicentre, rred near San Francisco, le variations in pattern/not even/not regular, ated area of intensity 4 within intensity 3 area,		[2]
	(iv)	varia varia	ation in rocks/geology, ation in building type, ation in relief leading to landslides, ation in soil type/regolith,		[1]
	ma ma ma ma	ny ye ny ye ny ye ny ye	/strong earthquake/buildings collapsed, ars ago therefore poor building design, ars ago therefore poor relief available, ars ago therefore no warning systems, ars ago therefore no earthquake drills, ars ago therefore no planning regulations,		[2]

	Pag	ge 5		Mark Scheme	Syllabus	Paper
				IGCSE – October/November 2012	0460	21
3	insulation prevent <u>Slats/lov</u> allow ai stop wir prevent <u>Painted</u> reflect s prevent <u>1 metre</u> standar avoid he <u>On gras</u>		ulation vent i ts/lou w air o wind vent i nted v ect su vent i ntetre a ndard id hea	n, nstruments from overheating, <u>vres</u> to circulate, d entering, nstruments from overheating, <u>white</u> un's rays, nstruments from overheating, <u>above ground</u> lise with other weather stations, ating/cooling from ground surface,		
		little	e heat	lise with other weather stations, t reflection, ating/cooling from ground surface,		
		2 ex	xplan	ation points per feature.		[4]
	(b)	(i)	14°C	C and 22°C,		[1]
		(ii)	8°C,			
				and <b>(ii)</b> if units not given max 1. of correct units once validates the rest.		[1]
	(	(iii)	40, %,			
			Marl	k independently.		
			Carr	y forward errors from (i) and (ii).		[2]

	Page 6		Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2012	0460	21
4		conda tiary, mary,	ry,		[3]
	(b) (i)	quai	rying/mining,		[1]
	(ii)	jobs raw boos <u>Disa</u> eyes dang loss nois dust incre loca biod	material, st to (local) economy/multiplier effect/economic imp idvantages sore/visual pollution, ger specified, of agricultural land, e from machinery/blasting/trucks,	act (on area),	
		Poo	arvo ono mark for oach		[A]

Reserve one mark for each.

	Page 7			Mark Scheme	Syllabus	Paper
				IGCSE – October/November 2012	0460	21
5	(a)	- `` I	Tara Mana	hland, naki, awatu-Wanganui, erbury,		[1]
	(	(ii) \	Nes	t Coast,		[1]
	(i	iii) ł	Haw	ke's Bay shaded with cross hatches,		[1]
	(i	iv) 🤅	90 0	00,		[1]
		low(e medi low/fa dens spars one r	er)/sj um/l airly est i sest num	ensities low, parse(r) in west, high <u>er</u> /dens <u>er</u> in east, low density in north/south, in Canterbury/central-east, in West Coast/central-west, erical value with units to illustrate any of the above alone = 0	points,	[3]
		-				[3]
	(6)	weile		eas sparser/drier areas denser,		[1

	Page 8		Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2012	0460	21
6		19 – 52° 17 – 54°			
					[2]
	<b>(b)</b> b	par plotte	ed accurately,		
	• •	•	correctly,		[2]
	<b>(c)</b> b	oring unu	used land under cultivation,		
	0	•	6 of GDP from agriculture,		
		•	endence on subsistence agriculture, d foreign exchange earnings,		
			iental impact of air transport,		
			which could be used for food crops,		
			food imports,	<b>6</b> (1)	
	Ir	ncrease	soil erosion/desertification/deforestation/pollution fr	om tertilizers or p	esticides, [4]