International General Certificate of Secondary Education

## MARK SCHEME for the October/November 2012 series

## 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 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		2	Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2012	0460	21
1	(a) (i)	) narr	ow tarred/Old Road,		[1]
	(ii)	) aero	odrome landing area/airport/airstrip,		[1]
	(iii)	) spot	height,		[1]
	(iv)	) qua	rry/excavation,		[1]
	(v)	) mini	ng/prospecting trench,		
		ln (a	a) if more than one answer is given and one is wrong	g then the answei	r = 0. [1]
	(b) (i)	) nort	h to south,		[1]
	(ii)	) narr angl den build high cont	ower in north/wider in south, le of tributaries/confluences, dritic pattern, d up of water behind dam, er land in north, cours make V shape upstream,		[2]
	(iii)	) 335	0 – 3450 (metres),		[1]
	(iv)	) 986	495,		[1]
	(c) (i)	) corr	ect position of Chantalitiki river: 89 – 92cm from left	,	[1]
	(ii)	) corr	ect position of wide tarred road: 34 – 38cm from left	3	[1]
	(iii)	) corr	ect position of building: 26 – 29cm from left,		
		Use Arro proje The If the Allo	the ruler device to measure the answers. ws should end within about 1cm of the profile. Me ects to. re should be no ambiguity. ere is more than one response and one is wrong the w labels by names or question numbers.	easure to the poir en the answer = 0	nt that the arrow [1]
	(d) hu sp sc tra or nc riv pa	uts <u>and</u> barse/is bme nu acks/cu ne "oth b tarrec etwork/ vers/wa ans,	buildings, solated/dispersed/scattered (allow sparse population icleation/clusters, ut lines/game trails, er" road, d roads, many junctions/interlinked, atercourses,	n but not low popi	ulation),
	Γ(	esei ve	one for each category		[4]

Page 3	Mark Scheme	Syllabus Pap	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,

[3]

	Page 4		Mark Scheme	Syllabus	Paper	
			IGCSE – October/November 2012	0460	21	
2	<b>(a)</b> 5,				[1]	
	(b) (i) E	Ξ mo	ostly within intensity 8 area or adjacent ocean,		[1]	
	(ii) a	any a	area within intensity 6 area shaded,		[1]	
	(iii) c r c s is	conc nighe centr some solat	entric pattern, est in centre/effects get less further from epicentre, ed near San Francisco, variations in pattern/not even/not regular, ted area of intensity 4 within intensity 3 area,		[2]	
	(iv) v v v	varia varia varia varia	tion in rocks/geology, tion in building type, tion in relief leading to landslides, tion in soil type/regolith,		[1]	
	(c) powe many many many many many	erful/: / yea / yea / yea / yea / yea	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]	

	Page 5		6	Mark Scheme	Syllabus	Paper	
				IGCSE – October/November 2012	0460	21	
3	(a)	<u>Dou</u> insu pre	<u>uble F</u> ulatior vent i	<u>Roof</u> n, nstruments from overheating,			
		<u>Sla</u> allo stop pre	<u>ts/lou</u> w air o winc vent i	<u>vres</u> to circulate, d entering, nstruments from overheating,			
		<u>Pai</u> refle pre	<u>nted v</u> ect su vent i	<u>white</u> un's rays, nstruments from overheating,			
		<u>1 m</u> star avo	<u>netre a</u> ndard bid he	above ground lise with other weather stations, ating/cooling from ground surface,			
		<u>On</u> star little avo	grass ndard e heat id hea	2 lise with other weather stations, t reflection, ating/cooling from ground surface,			
		2 e	xplan	ation points per feature.		[	4]
	(b)	(i)	14°C	C and 22°C,		[	1]
		(ii)	8°C,				
			In <b>(i</b> ) Use	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	<b>(a)</b> se te p	econda ertiary, rimary,	ry,		[3]
	(b) (i	i) quai	rrying/mining,		[1]
	(ii	i) <u>Adva</u> jobs raw boos <u>Disa</u> eyes dang loss nois dust incre loca biod wate	antages material, st to (local) economy/multiplier effect/economic im advantages sore/visual pollution, ger specified, of agricultural land, e from machinery/blasting/trucks, t, eased road traffic, ls may need to be relocated, liversity/ habitats lost, er contamination,	pact (on area),	
		_			

Reserve one mark for each.

[4]

	Page 7	7	Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2012	0460	21
5 (a	(a) (i)	Nort Tara Man Cant	thland, anaki, nawatu-Wanganui, terbury,		[1
	(ii)	Wes	st Coast,		[1
	(iii)	Haw	vke's Bay shaded with cross hatches,		[1]
	(iv)	90 0	000,		[1]
	(b) over low me low den spa one	erall d v(er)/s edium/ v/fairly nsest arsest e num	lensities low, sparse(r) in west, /high <u>er</u> /dens <u>er</u> in east, / low density in north/south, in Canterbury/central-east, t in West Coast/central-west, herical value with units to illustrate any of the above	e points,	
	Fig	gures a	alone = 0		[3
	<b>(c)</b> we	etter ar	reas sparser/drier areas denser,		[1

Pa		ge 8 Mark Scheme Syllabus		Paper	
			IGCSE – October/November 2012	0460	21
6	(a)	49 – 52° 47 – 54°	= 2, = 1,		[2]
	(b)	bar plotte key usec	ed accurately, I correctly,		[2]
	(c)	bring uni greater % less dep increase environn use land increase increase	used land under cultivation, % of GDP from agriculture, endence on subsistence agriculture, d foreign exchange earnings, nental impact of air transport, which could be used for food crops, food imports, soil erosion/desertification/deforestation/pollution	from fertilizers or p	esticides, [4]