PMT

CAMBRIDGE INTERNATIONAL EXAMINATIONS

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			Paper		
		IGCSE – October/November 2012	0460	21	
l (a) (i)	narro	ow tarred/Old Road,			[1]
(ii)	aero	drome landing area/airport/airstrip,			[1]
(iii)	spot	height,			[1]
(iv)	quar	ry/excavation,			[1]
(v)	mini	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	h to south,			[1]
(ii)	angl deno builo high	ower in north/wider in south, e of tributaries/confluences, dritic pattern, d up of water behind dam, er land in north, ours make V shape upstream,			[2]
(iii)	3350	0 – 3450 (metres),			[1]
(iv)	9864	495,			[1]
(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]
(iii)	corre	ect position of building: 26 – 29cm from left,			
	Arro proje Ther If the	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 th w labels by names or question numbers.			row [1]
sp so tra on no ne	(d) huts and buildings, sparse/isolated/dispersed/scattered (allow sparse population but not low population some nucleation/clusters, tracks/cut lines/game trails, one "other" road, no tarred roads, network/many junctions/interlinked,		llation),		
	ers/wa ins,	atercourses,			
_		one for each category			[4]

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(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]

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	Page 4		Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2012	0460	21
2	(a) 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, red near San Francisco, e 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
	mar mar mar mar	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

	Page	5	Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2012	0460	21
3	in	<u>ouble F</u> sulatio revent i			
	al st	op win	<u>ivres</u> to circulate, d entering, instruments from overheating,		
	re		<u>white</u> un's rays, instruments from overheating,		
	st	andarc	<u>above ground</u> lise with other weather stations, eating/cooling from ground surface,		
	st lit	tle hea	<u>s</u> lise with other weather stations, t reflection, eating/cooling from ground surface,		
	2	explan	ation points per feature.		[4]
	(b) (i) 14°(C and 22°C,		[1]
	(ii) 8°C	,		
) and (ii) if units not given max 1. of correct units once validates the rest.		[1]
	(iii) 40, %,			
		Mar	k independently.		
		Carı	ry forward errors from (i) and (ii).		[2]

	IGCSE – October/November 2012	0460	21
tert			
	nary,		[3
(b) (i)	quarrying/mining,		[1
(ii)	Advantages jobs, raw material, boost to (local) economy/multiplier effect/econo <u>Disadvantages</u> eyesore/visual pollution, danger specified, loss of agricultural land, noise from machinery/blasting/trucks, dust, increased road traffic, locals may need to be relocated, biodiversity/ habitats lost, water contamination,	mic impact (on area),	

	Page	7	Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2012	0460	21
5	(a) (i)	Tara Man	hland, anaki, awatu-Wanganui, erbury,		[1]
	(ii)	Wes	t Coast,		[1]
	(iii)	Haw	rke's Bay shaded with cross hatches,		[1]
	(iv)	90 0	00,		[1]
	lov me lov de spa	v(er)/s edium/ v/fairly nsest arsest	ensities low, parse(r) in west, high <u>er</u> /dens <u>er</u> in east, r low density in north/south, in Canterbury/central-east, in West Coast/central-west, erical value with units to illustrate any of the above	e points,	
	Fig	jures a	alone = 0		[3]
	(c) we	tter ar	eas sparser/drier areas denser,		[1]

Page 8	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2012	0460	21
(a) 49 − 52° = 2 47 − 54° = 1	2, ,		[2
(b) bar plotted a key used co			[2
(a) bring upues	d land under cultivation.		

(c) bring unused land under cultivation, greater % of GDP from agriculture, less dependence on subsistence agriculture, increased foreign exchange earnings, environmental impact of air transport, use land which could be used for food crops, increase food imports, increase soil erosion/desertification/deforestation/pollution from fertilizers or pesticides, [4]

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