CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2013 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 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



	Page 2			Syllabus	Paper
			IGCSE – October/November 2013	0460	21
1	(a) (i)	railw	yay,		[1]
	(ii)	wide	e tarred,		[1]
	(iii)	track	k(s)/cut line(s),		[1]
	(iv)	cana	al/narrow gravel (road)/earth,		[1]
	(v)	airpo	ort/aerodrome landing area,		[1]
		More	e than one answer = 0.		
	(b) (i)	north	h east,		[1]
	(ii)	high tribu	Il rivers/streams, drainage density/many rivers, taries/confluences/affluents, dritic,		
		tribu	taries join at acute angles,		[3]
	(c) (i)	400r	m,		[1]
	(ii)	corre	ect position of quarry (two options),		[1]
	(d) (i)	trigo	nometrical station,		[1]
	(ii)	6297	713,		[1]
	(iii)	4600	0 – 4850 (metres),		[1]
	(iv)	171	– 173°,		[1]
	(v)	Chip	ooto by 79/79.1/80 (metres), (also allow 59/59.1/60	metres)	[1]
	(e) (i)	gent	ly sloping,		[1]
	(ii)	dam	(s)/canal(s)/furrow(s), (reservoir, lake = 0)		[1]
	(iii)	powe	er line/33kV,		[1]
	(iv)	com	pounds/buildings,		[1]

Page 3	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2013	0460	21
(a) (i) 29	% and line correctly plotted,		[1]
(ii) 13	(%),		[1]
• • •	• , • • • • • • • • • • • • • • • • • •	٦,	
			[2]
(b) 9 per th		[1]	
(c) (i) Ge	rmany,		[1]
(ii) Ire	land,		[1]
(d) bigger workforce (for the future), fewer old dependants to support, innovative population, personnel for army, higher income from taxes, more spending power.			[1]
	(a) (i) 29° (ii) 13° (iii) (sli occ cha (b) 9 per th (c) (i) Ge (ii) Irei (d) bigger v fewer of innovation person in higher in the complex of the complex o	(a) (i) 29% and line correctly plotted, (ii) 13(%), (iii) (slight) reduction (in number of young)/aging population occurs in all countries, changes are small/gentle/slight, (b) 9 per thousand, (c) (i) Germany, (ii) Ireland, (d) bigger workforce (for the future), fewer old dependants to support, innovative population, personnel for army,	(a) (i) 29% and line correctly plotted, (ii) 13(%), (iii) (slight) reduction (in number of young)/aging population, occurs in all countries, changes are small/gentle/slight, (b) 9 per thousand, (c) (i) Germany, (ii) Ireland, (d) bigger workforce (for the future), fewer old dependants to support, innovative population, personnel for army, higher income from taxes,

Page 4	Mark Scheme	Syllabus	Paper
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3 (a)

	Photograph A	Photograph B	Photograph C	None of the photographs
high class residential zone		✓		
industrial zone				✓
CBD			✓	
squatter (informal or shanty) area	√			

[4]

(b) single storey,

small,

flat/gentle roofs,

no/few windows,

metal/corrugated sheeting/old/recycled/improvised materials/scrap,

in compounds/fenced area,

weights/tyres on roofs,

chimney out of side,

detached/separate buildings,

painted/colours,

[4]

4 (a) A narrower/B wider, Allow A smaller/B larger if neither of the

A shorter/B taller, first two points is made. Also allow pairs of figures.

A steeper/B gentler,

A concave but B straight slopes,

A lava and ash but B just lava/B doesn't have ash,

A two vents/parasitic/secondary cone but B one vent,

A no/narrow crater but B broad crater,

Allow the last two lines without terms or terms used interchanged if clear.

[5]

[3]

(b) A more viscous lava/runs slower,

A possibly more silicic lava/A acid B basic,

A andesite/rhyolite B basalt,

A lava at lower temperature,

A more explosive,

A lava solidifies more quickly/cools more quickly,

A lava doesn't flow as far,

A less volume of lava/magma,

A has blockages,

Or emphasis on B

	Page 5				Syllabus	Paper
				IGCSE – October/November 2013	0460	21
5	(a)	(i)	wav	e-cut platform,		[1]
		(ii)	stac	k,		[1]
		(iii)	cliff,			[1]
		(iv)	bead	ch,		[1]
	, ,	way hyd wea cay cay arc	lraulic aknes re(s)/r res joi h colla	a erosion, c action/abrasion, cs in rock/cliff, notch(es) eroded/formed, n/arch formed, apses,		[4]
6	(a)	larg	jest s	egment 96 – 99° = 2, egment 94 – 101° = 1,		
		key correct = 1,				
		Marked independently.		ndependently.		[3]
	(b)	(i)	redu	ce/cause lung problems, (allow heart problems)		[1]
		(ii)		causes acid rain, IO _x cause (photochemical) smog,		[2]
	(c)	c) changes may be costly (for owners/government), fuel suppliers affected, alternative sources of fuel may not be available, energy prices may rise, alternatives less effective/produce less energy/have specific problem, job losses, local economy suffers,		problem,	[2]	