CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the October/November 2013 series

0460 GEOGRAPHY

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0460/11

Paper 1, maximum raw mark 75

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.



Pa	age 2	2	Mark Scheme	Syllabus	Paper	
			IGCSE – October/November 2013	0460	11	
1 (a)	(i)	68.1	babies/infants/children out of 1000 die in their 1 st ye	ear/before their fire	st birthday [1]	[1]
	(ii)		– 8.00 2 (per 1000)		[2 × 1]	[1] [1] [2]
	(iii)	long good inve inve avai good no d sani edud heal	s such as: life expectancy/higher life expectancy; d treatment of diseases/medicines/vaccinations/can d health care facilities/medical facilities/hospitals; stment in doctors/nurses etc.; stment in care homes/services for elderly; lability of pensions; d diet/food supply/no famine/no starvation/no hunge rought/good water supply; tation/hygiene; cation/advertisements/government support about of th; evels of named diseases; etc.	ır;		l for [3]
	(iv)	Little not e not l likely likely not l likely likely high wan man male peop	s such as: e availability of contraception/do not use protection/f educated re. Contraception/family planning; ikely to be able to afford contraception/family planning / to want children to work on the land; / to want children to send out to earn money; / to want children to look after parents in old age; ikely to be affected by government policy to reduce / to have large families due to tradition/culture; / to have large families due to religious influences; infant mortality rate/high death rate amongst childred to boys so keep trying; y women don't work; e status/virility; ole marry young; ole have children from a younger age; etc.	ing; family size;	[4 × 1]	[4]

Page 3	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2013	0460	11
Gen Man Som of al Max	s such as: erally higher in Africa/lower in South America; y between 2 and 3% in Africa most below 2% in So the countries in both continents with same growth ra nomaly); 2 for evidence e.g.: 1 country & statistic from Africa untry & statistic from South America;	tes/some anoma	lies (or example [3 × 1] [3]
(ii) Idea	s such as:		
peop such or of lack pres wan of he over traffi atmo inad defo incre high low/ starf	ble do not have enough resources/overpopulation; n as food supplies/starvation occurs/famine (dev.); veruse of agricultural land/overgrazing (dev.); of work; sure on/poor access to/not enough education/want t to reduce levels of disease or examples/not enoug ospitals/overcrowded hospitals/can't afford hospitals crowded housing/not enough space to live in/not en c congestion; ospheric pollution; equate water supply/sanitation; restation/loss of natural vegetation; eased poverty; cost for governments; less economic development; to construct shanty towns; etc. question is not about dependency	h/poor access to	
Levels m			[0 1] [0]
Level 1	nts including limited detail which suggest reasons fo	r international mi	[1–3 marks)] gration.
Level 2			[4–6 marks]
	med example. veloped statements which explain reasons for intern	ational migration	
NB MAX	5 with no named example.		
Comprel some pla Candida Employn Salary Services Food suj		h pulls and pu	[7 marks] I shes , including [7]
War Drought			
Natural o	lisasters		[Total: 25]

Page 4	1	Mark Scheme Syllabus				Paper			
	-	10			vember 20	13	0460	11	
2 (a) (i)	Rura Rura Rura Rura	ay be expressed in many different ways e.g.: ural are smaller/urban are more built up ural more spread out/urban more clustered ural areas has less services/urban has more services ural has lower population density/urban has higher population dens ural has less people living there/urban has more people living there c. B: Must be comparative							
		Must be	comparativ	ve				[1]	[1]
(ii)	A =	Linear	B = Nuc	leated				[2 × 1]	[2]
(iii)	Build And Pope Ther No c	separate ulation de re is likely	far apart/s	services;					
	etc.							[3 × 1]	[3]
(b) (i)	on a on fl over	at land at	ntain/high the top of	land/in an t f a hill/plate e sea level		a;		[3 × 1]	[3]
(ii)	Defe Cont Abov Build Neat Rout	ve flood le ding mate r railway te to Fogg	e; sage throu evel of rive rials/wooc line/good o gia and Na	er; Iland; communica aples;	ations or tra r/river for fis	•		[4 × 1]	[4]
(iii)	loss habi dest spec recla air p wate spec acid	of farmla tats destr roys ecos cies unde amation o ollution; er/river po cified imp rain (dev	and/forest/ nd/hedger oyed; systems/fo r threat/ex f wetlands f wetlands flution; act of litter f.);	/deforestati rows/fields; ood chains; tinction; s/swamps; on enviror e pollution;	nment;			[5 × 1]	[5]

	Page	5	Mark Scheme	Syllabus	Paper	
			IGCSE – October/November 2013	0460	11	
	Sta	<u>vel 1</u>	nts including limited detail on reasons for function of		[1–3 ma	arks]
	Us Mo	ore dev	ned example /eloped statements on reasons for function of settle 5 marks if no named example	ment.	[4–6 ma	arks]
	Us Mo Ca Ca Inc Ad	ore dev ttleme indidat pital c dustria lminist arket to	l town rative centre	d	[7 ma	arks]
	Po To	ort ourist re	esort			[7]
					[Total:	25]
					_	_
3	(a) (i)		sical = plants/ice/temperature change mical = water/oxygen/acids/plants			
		Both	needed for 1 mark			[1]
	(ii)		Freeze/thaw/frost shattering Carbonation/solution		[2 × 1]	[2]
	(iii)	seed seed crac orga	s such as: Is fall into cracks in rocks; Is/plants/roots grow in cracks; ks widened/rocks broken apart; nic acids help decomposition of rocks; nals may burrow/weaken rocks;		[3 × 1]	[3]
	(iv)	rock wea som in ar more high high rise pres	s such as: s with cracks are likely to experience freeze-thaw thering ; e rocks/carbonates may be dissolved by chemicals eas where temperatures fluctuate around zero freez e likely to occur; temperature range will lead to exfoliation; er temperatures increase rate of weathering/ double of 10C; ence of absence of plants/animals/vegetation will thering;	ze thaw is es with every	age biolog [4 × 1]	_

Page	e 6	Mark Scheme	Syllabus	Paper
		IGCSE – October/November 2013	0460	11
(b) (i	la jo re s le S C	deas such as: arge areas of bare rock/not many plants/not much binted rock/cracks; ed/orange/brown rock; teep/vertical slopes/cliff; cree/loose rock/boulders; ess steep at base; hort grass/low plants/scattered plants; aves/holes in rock; tc.	n vegetation;	[3 × 1] [3]
(ii		deas such as: ligh temperatures during the day; leat outer layers of rock; 'herefore expansion/rock expands (dev.); Colder temperatures at night; Cause contraction /rock contracts (dev.); Causes stresses/strains in rock; Co outer layer peels away/like onion skin; Constant repetition etc.	ut do not double credit	
		IB: Diagram is not compulsory		[5 × 1] [5]
<u>L</u>	<u>evel</u> State	s marking <u>1</u> ments including limited detail describing and/or al desert.	explaining characteristi	[1–3 marks] cs of climate o
L <u>i</u> U N	<u>evel</u> Jses	<u>2</u> named example. developed statements describing and/or explaini	ing characteristics of cli	[4–6 marks] mate of tropica
L <u>i</u> U C	<u>evel</u> Jses Comp	AX 5 marks of no named example <u>3</u> named example (e.g. Sahara Desert). orehensive and accurate statements describing a pical desert, including some place specific referer		[7 marks]
T P D H L	emp Precip Distar ligh atitu			
		ocean currents shadow		[7]
				[Total: 25]
				[10tal. 25]

Page 7	,	Mark Scheme	Syllabus	Paper	
		IGCSE – October/November 2013	0460	11	
4 (a) (i)	Plun	ge pool		[1]	[1]
(ii)		1 mark e is a steep gradient/contours are close together = 2	. nd mark	[2 × 1]	[2]
(iii)	Hard Hard Soft Colla Move	s such as: I rock & soft rock layers; I rock is resistant to erosion/soft rock is less resistar rock below is undercut/hard rock forms an overhang apse of hard rock/overhang falls/hard rock falls; es back/retreats/forms a gorge; 1 for processes hydraulic action/abrasion/solution;		[3 × 1]	[3
(iv)	Valle More Less Rive And Rive More Is fai	rences such as at Y: ey is wider; e likely to have a flood plain; e gently sloping; v V-shaped r is wider; deeper/more volume; r more likely to be carrying out deposition; e gentle long profile; ster flowing; a tributary but Y is the main river;			
		. Accept above approach or the reverse in relation . Answer must be comparative (or 2 sets of discrete		can be linl [4 × 1]	ked [4]
(a) (i)	distri form 200k Clos	s such as: butaries/river splits into many branches; ed by Ganges and Brahmaputra/two rivers; m across; e to Bay of Bengal/north of/next to/flows into; angladesh; ate;		[3 × 1]	[3]
(ii)	Depe As s Espe Abse Impa Grov	s such as: osition of sediment/alluvium by river; peed of flow slows down/cannot carry load; ecially if river is heavily laden with silt (dev.); ence of major tidal flows/currents; act of salt water causes further deposition; with of vegetation raises it above sea level; ibutaries form/river divides into many branches;			

	Ра	ge 8	5		Mark So	cheme			Syllab	us	Paper	
				IGCSE	- October	/Novem	ber 2013		0460	0	11	
	(c)	<u>Lev</u> Sta		arking ts including lin s of living on a		describii	ng benefits	s and/oi	-		[1–3 ma	arks]
			<u>rel 2</u> es nan	ned example							[4–6 ma	arks]
				eloped statem s of living on a		ibing ben	nefits and/o	or				
		NB MAX 5 marks if no named example.										
			<u>el 3</u>	/							[7 ma	arks]
			npreh	ned example (e ensive and ac		,		benefit	s and/or c	lifficultie	es of living o	on a
		Car	ndidate	es may refer to	o benefits a	Ind difficu	ulties such	as:				
		Agr Floo Foc	ation icultur oding od sup	ply								
			nstruct	ion difficulties								[7]
											[Total:	: 25]
5	(a)	(i)	Coal	mining							[1]	[1]
	(ii)		comp	ne in motor ve outer manufact of 200 000 em	ture;	-		ase of 3	0000		[2 × 1]	[2]
		(iii)	Com Subs Impa	s such as: petition from a titute materials cts of mechan pries relocated	s/e.g. plasti ization/auto	ics replace omation/c	cing iron a developme	ent of te	chnology;		[3 × 1]	[3]

Page 9	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2013	0460	11

(iv) Ideas such as: Recession/economic decline/country earns less money; Loss of jobs/unemployment; Poverty; Negative multiplier; Less money available to spend locally/less government spending on schools/hospitals etc.: Shops may have to close down; Suppliers may go out of business; Need for workforce to retrain/people left with wrong skills; Less atmospheric pollution; Employment opportunities for computer technicians; Less exports; Out migration; [4 × 1] **[4]** etc.

(b) (i) Inputs = items which are brought into the factory to use in production/raw materials for the industry

Processes = what happens in the factory to convert the raw materials into finished products

Outputs = the finished products/the items which have been made in the factory.

[3 × 1] **[3]**

(ii) Ideas to credit will depend on the industry chosen:
e.g. sugar beet refining -

the raw materials have influenced the location to a great extent/it is a raw material location/located near sugar beet farms (eval); as it uses large quantities of raw materials/sugar beet; raw materials are more bulky than finished products; as weight is lost in processing (dev.); transport costs can be saved by locating close to farms; sugar is delivered nationwide/market is not just in one area so location next to it is impossible; sugar is not perishable etc.

NB: Be prepared to accept any example of manufacturing or processing (but not high technology industry). It is valid to choose an industry (such as bread making) where the location has been barely influenced by where the raw materials are obtained as it is a market location.

One mark reserved for evaluative element.

[5 × 1 mark or development] [5]

Examples of high technology industries are: Aircraft industry Pharmaceuticals Computers/software Mobile phone technology

	Page	10	Mark Scheme	Syllabus	Paper	
			IGCSE – October/November 2013	0460	11	
	Le S ⁱ		arking nts including limited detail explaining the facto gy industries.	ors which have	[1–3 ma attracted	-
	<u>L</u> e	evel 2	ned example		[4–6 ma	arks]
	M in	lore de dustrie	veloped statements explaining the factors which	have attracted	high techno	logy
	U		med example (e.g. Cambridge Science Park). nensive and accurate statements including some pla	ace specific refere	[7 ma ence.	arks]
	W Ti La C G U	/orkforc ranspor and ava ost of la overnm niversit	t ailability and nent incentives/investment			[7]
					TT a fail	
					[Total:	25]
6	(a) (i) E			[1]	[1]
	(ii	, peop they there	s such as: ble want to farm to earn a living/make a profit/make can produce large surplus/quantities of products/m e is good access to markets/large demand for produ ly business;	ore than family c	an eat;	
		etc.			[2 × 1]	[2]
	(iii	harv mec man tract	s such as: esting is taking place/cutting the crop; hanised/using machinery; ual/hand labour/collecting waste/picking up crop; ors/trailers/truck taking crop away;		10 41	[0]
		etc.			[3 × 1]	[3]

Page 11				Mark S				-	labus		aper	
			GCSE – (October	r/Noven	1 ber 20 1	3	0	460		11	
	crops there some too n irriga glass in are gentl fertile stron	e must be e crops r nuch rain ation is u shouses eas with ly sloping e soils e ng winds	is: o be grow e sufficier need suns nfall may ised wher are used frost/long g land is e nable goo /hail will r be neede	nt rainfal shine to waterlog n rainfall d when te g winter easy to r od crop g ruin the c	Il for cro ripen; g/flood c is low; emperat hardy c mechan growth; crops;	ps to gro crops; ures are ops will ize;	low/to p	protect fro		[4	× 1]	[4]
	Field Field Woo A ne More	d sizes ha d bounda odland ha w housin e houses	ch as: ave been aries have as been c ng estate s are usec d changec	e been re cut down, has bee d by non	emoved /defores en built; -agricult	tation; ural wor	kers/les			built;	× 1]	[3]
	more as fie use o use o grea such batte more as th	elds are of fertiliz of pestic ter use on as spra ery farmine space nere is le	nisation; bigger the	bicides; bn; use wat ultry/pigs erows re and;	er pump ; moved/	bed from field bou	aquifer Indaries	(dev.);		-	r farn	ning [5]
(c) Leve	els m	arking										
<u>Leve</u> State		nts inclue	ding limite	ed detail	which e	explain w	hy there	e are foo	d shortag	-	-3 ma	rks]
More	s nar e dev	-	mple statement named ex		explain	why the	ere are fo	ood shor	ages.	[4–	-6 ma	ırks]
Leve		med eva	mple (e.q	n Ethioni	ia)							[7]

Uses named example (e.g. Ethiopia). Comprehensive and accurate statements, explain why there are food shortages, with some place specific reference.

Page 12	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2013	0460	11

Candidates may refer to ideas such as:

Drought Extreme weather events Flooding Poor farming practices War Lack of agricultural technology/knowledge Natural disaster

[7]

[Total: 25]