MARK SCHEME for the October/November 2013 series

0460 GEOGRAPHY

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.



Page 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	ar/before their fire	st birthday [1]	[1]
	(ii)		– 8.00 2 (per 1000)		[2 × 1]	[1] [1] [2]
	(iii)	long good inves inves avail good no d sanif educ 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; ability 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.	r;		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 planni / 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 childre to boys so keep trying; y women don't work; e status/virility; ole marry young; ole have children from a younger age; etc.	ng; family size;	[4 × 1]	[4]

Page 3	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2013	0460	11
Gen Man Som of ar 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;	ites/some anomal	lies (or example [3 × 1] [3]
peop such or ov lack pres wan of ho over traffi atmo inad defo incre high low/	s such as: ble do not have enough resources/overpopulation; a s 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.	h/poor access to s;	
NB: c) Levels m	question is not about dependency harking		[5 × 1] [5]
<u>Level 1</u> Stateme	nts including limited detail which suggest reasons fo	or international mi	[1–3 marks)] gration.
	med example. veloped statements which explain reasons for interr	national migration.	[4–6 marks]
NB MAX	5 with no named example.	-	
Comprei some pla Candida		th pulls and pu	[7 marks] shes , including [7]
Natural o	lisasters		[Total: 25]

Page 4	1			Mark Sch	eme		Sylla	bus	Paper		
i uge -	•	10		Dctober/N		2013	040		11		
2 (a) (i)	Rura Rura Rura Rura	II are sma II more sj II areas h II has low	aller/urbai pread out as less se er popula	ation densi	e built up ore cluster ban has m ity/urban h	ed nore service nas higher p		density			
		Must be	comparat	ive					[1]	[1]	
(ii)	A = I	_inear	B = Nu	cleated					[2 × 1]	[2]	
(iii)	Build And Popu Ther	separate ulation de e is likely	far apart/ d by cour ensity is lo	w services	rmland et	c.;			[3 × 1]	[3]	
(b) (i)	on a on fla over	at land at	ntain/high the top c	land/in ar of a hill/pla ve sea leve	teau;	rea;			[3 × 1]	[3]	
(ii)	Defe Cont Abov Build Near Rout	ve flood le ling mate r railway e to Fogg	e; sage throu evel of riv erials/woo line/good gia and N	dland; communio	cations or	-			[4 × 1]		
(iii)	loss habit destri spec recla air p wate spec acid	of farmla tats destr roys ecos ties unde mation c ollution; er/river pc tified imp rain (dev	and/fores nd/hedge oyed; systems/fo r threat/ex f wetland f wetland f wetland f ution; act of litte f.);	t/deforesta erows/field ood chains xtinction; s/swamps er on envire se pollutio	s; s; ; onment;				[5 × 1]	[5]	

	Page	e 5	Mark Scheme	Syllabus	Paper	
			IGCSE – October/November 2013	0460	11	
	(c) L	.evels	marking			
	L S s	f	[1–3 ma	arks]		
	L N	/lore	2 named example leveloped statements on reasons for function of settle \X 5 marks if no named example	ment.	[4–6 ma	arks]
	L N S C Ir A	<u>evel</u> Jses More cettler Candi Capita ndust	<u>3</u> named example (e.g. Liverpool). leveloped statements on reasons for function of name nent including some place specific reference. dates may refer to functions such as:	ed	[7 ma	arks]
	F	Port				
	Т	ouris	t resort			[7]
					[Total:	: 25]
3	(a) (nysical = plants/ice/temperature change nemical = water/oxygen/acids/plants			
		В	oth needed for 1 mark			[1]
	(i		= Freeze/thaw/frost shattering = Carbonation/solution		[2 × 1]	[2]
	(ii	, Se Cl	eas such as: eds fall into cracks in rocks; eds/plants/roots grow in cracks; acks widened/rocks broken apart; ganic acids help decomposition of rocks; imals may burrow/weaken rocks; c.		[3 × 1]	[3]
	(iv	rc w so in m hi hi ris	eas such as: cks with cracks are likely to experience freeze-thaw eathering ; me rocks/carbonates may be dissolved by chemicals areas where temperatures fluctuate around zero freez ore likely to occur; gh temperature range will lead to exfoliation; gher temperatures increase rate of weathering/ double be of 10C; esence of absence of plants/animals/vegetation will eathering; c.	ze thaw is es with every	rage biolog [4 × 1]	-

Page	6	Mark Scheme	Syllabus	Paper
		IGCSE – October/November 2013	0460	11
(b) (i)	large joint red/o stee scre less shor	s such as: e areas of bare rock/not many plants/not much veg ed rock/cracks; orange/brown rock; o/vertical slopes/cliff; e/loose rock/boulders; steep at base; t grass/low plants/scattered plants; s/holes in rock;	getation;	[3 × 1] [3
(ii)	High Hea Thei Cold Cau Cau So c Con	s such as: temperatures during the day; outer layers of rock; efore expansion/rock expands (dev.); er temperatures at night; se contraction /rock contracts (dev.); ses stresses/strains in rock; uter layer peels away/like onion skin; stant repetition etc.	not double credit	
		Diagram is not compulsory		[5 × 1] [!
Sta	vel 1	nts including limited detail describing and/or expl	aining characterist	[1–3 marks ics of climate o
	vel 2			[4–6 marks
Mo		ned example. /eloped statements describing and/or explaining o	characteristics of cl	imate of tropica
NE	3 MAX	5 marks of no named example		
Us Co	ompreh	ned example (e.g. Sahara Desert). ensive and accurate statements describing and e I desert, including some place specific reference.	explaining characte	[7 marks
Te Pr Di: Hit La	empera ecipita stance gh pre titude	tion from ocean		
	ain sha			[7
				[Total: 25

	Page 7	/	Mark Scheme	Syllabus	Paper	
			IGCSE – October/November 2013	0460	11	
4	(a) (i)	Plun	nge pool		[1]	[1]
	(ii)		1 mark e is a steep gradient/contours are close together = 2	2 nd mark	[2 × 1]	[2]
	(iii)	Hard Hard Soft Colla Mov	is such as: d rock & soft rock layers; d rock is resistant to erosion/soft rock is less resistan rock below is undercut/hard rock forms an overhan apse of hard rock/overhang falls/hard rock falls; res back/retreats/forms a gorge; a 1 for processes hydraulic action/abrasion/solution;		[3 × 1]	[3]
	(iv)	Valle More Less Rive And Rive More Is fa	erences such as at Y: ey is wider; e likely to have a flood plain; e gently sloping; s V-shaped er is wider; deeper/more volume; er more likely to be carrying out deposition; e gentle long profile; ster flowing; a tributary but Y is the main river;			
			1. Accept above approach or the reverse in relation 2. Answer must be comparative (or 2 sets of discrete		can be linl [4 × 1]	ked) [4]
	(a) (i)	distr form 200I Clos	is such as: ibutaries/river splits into many branches; ned by Ganges and Brahmaputra/two rivers; km across; se to Bay of Bengal/north of/next to/flows into; angladesh; uate;		[3 × 1]	[3]
	(ii)	Dep As s Espe Abse Impa Grov	as such as: osition of sediment/alluvium by river; speed 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; wth of vegetation raises it above sea level; ributaries form/river divides into many branches;			
					[5 × 1]	[5]

Ρ	age 8	8	Mark Scheme	Syllabus	Paper	
			IGCSE – October/November 2013	0460	11	
(c)	<u>Lev</u> Sta	<u>/el 1</u> Iteme	narking nts including limited detail describing benefits and/o s of living on a delta.	r	[1–3 ma	arks]
		<u>/el 2</u> es nai	med example		[4–6 ma	arks]
			veloped statements describing benefits and/or s of living on a delta.			
	NB	MAX	5 marks if no named example.			
		<u>/el 3</u>			[7 ma	arks]
		mpreł	med example (e.g. Ganges Delta). nensive and accurate statements describing benefi	ts and/or difficultie	es of living o	on a
	Ca	ndida	tes may refer to benefits and difficulties such as:			
	Agi Flo Foo	gation ricultu oding od sup	re oply			
		nstruc Inspoi	tion difficulties t			[7]
					[Total:	: 25]
5 (a)) (i)	Coa	l mining		[1]	[1]
	(ii)	com	line in motor vehicle industry but increase in puter manufacture; s of 200 000 employees compared with increase of 3	30 000	[2 × 1]	[2]
	(iii)	Corr Sub Impa	s such as: petition from abroad/foreign companies; stitute materials/e.g. plastics replacing iron and stee acts of mechanization/automation/development of te ories relocated abroad/cheaper to make things abro	echnology;	[3 × 1]	[3]

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(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	<u>Level 3</u> Uses named example (e.g. Cambridge Science Park). Comprehensive and accurate statements including some place specific reference.				
	Candidates may refer to ideas such as: Workforce Transport Land availability Cost of land Government incentives/investment Universities					[7]
			nental factors		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 1	1		Scheme	Syllabus	Paper	
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(iv)	crop there som too r irriga glass in ar gent fertil stror	s such as: s need to be grown whe must be sufficient rainf c crops need sunshine to nuch rainfall may waterly tion is used when rainfa shouses are used when eas with frost/long winte y sloping land is easy to soils enable good crop g winds/hail will ruin the sers will be needed if so	all for crops to grow; o ripen; og/flood crops; all is low; temperatures are low/t r hardy crops will be gr o mechanize; o growth; e crops;	o protect from frost;	[4 × 1]	[4
	eic.				[4 ~ 1]	[4
(b) (i)	Field Field Woo A ne More	nges such as: sizes have been increa boundaries have been dland has been cut dow w housing estate has be houses are used by no htry road changed to dua	removed; m/deforestation; een built; m-agricultural workers/	less houses for work		[3
(ii)	more as fi use grea such batte more as th GM	s such as: e mechanisation; elds are bigger they can of fertilizers; of pesticides/herbicides; eer use of irrigation; as sprays which use wa ry farming of poultry/pig e space as hedgerows of ere is less woodland; crops/HYV's/green revol	ater pumped from aquif ıs; removed/field boundari	fer (dev.);	ace for farr	ninç
	etc.			[5 × 1 mark or develop	ment]	[5]
	vel 1	arking its including limited deta	ail which explain why th	ere are food shortages	[1–3 ma s.	arks
Use Mo	re dev	ned example eloped statements whic 5 if no named example		e food shortages.	[4–6 ma	arks
Lev	<u>el 3</u>					[7]
		ned example (e.g. Ethio				

Comprehensive and accurate statements, explain why there are food shortages, with some place specific reference.

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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]