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.



Pag	ge 2		Mark Scheme	Syllabus	Paper	
			IGCSE – October/November 2013	0460	11	
1 (a)			babies/infants/children out of 1000 die in their 1 st ye	ear/before their fire	st birthday [1]	[1]
	• •		– 8.00 2 (per 1000)		[2 × 1]	[1] [1] [2]
(long good inves inves avail good no d sanif educ heal	s such as: life expectancy/higher life expectancy; I treatment of diseases/medicines/vaccinations/can I health care facilities/medical facilities/hospitals; stment in doctors/nurses etc.; stment in care homes/services for elderly; ability of pensions; I 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.	er;		l for [3]
(Little not e not likely likely likely not likely high want man male peop	s such as: a vailability 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 childred to boys so keep trying; y women don't work; e status/virility; ble marry young; ble 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 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 anoma	lies (or example [3 × 1] [3]
(ii) Idea	s such as:		
such or or lack pres wan of he over traffi atmo inad defo incre high low/ start	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; t to construct shanty towns; etc.	h/poor access to s;	health care/lack
NB: Levels m	question is not about dependency narking		[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.		
Compreh some pla Candida Employn Salary Services Food sup War		th pulls and pu	[7 marks] shes , including [7]
Drought Natural o	lisasters		

Page 4	Mark Scheme Syllabus			Scher	ne				Svllah	us		Paper			
		Ι	GCSI					er 201	3		0460		1	11	
2 (a) (i)	may be e Rural are Rural mo Rural are Rural has Rural has etc.	xpre sma re sp as h s low	essec aller/ preac as le rer po	l in ma urban d out/u ess se opulat	any d are r urban rvice: ion d	lifferer nore k more s/urba ensity	nt way built u clust n has /urbai	rs e.g.: p ered more n has h	service	oopula					
	NB: Must	be o	comp	parativ	/e									[1]	[1]
(ii)	A = Linea	ır	B =	= Nucl	leate	d								[2 × 1]	[2]
(iii)	Ideas suc Buildings And sepa Populatio There is I No clear o etc.	are rate n de ikely	far a d by ensity v to b	count / is lov e few	trysid w; serv	e/farm ices;	land	etc.;						[2 × 1]	[3]
	elc.													[3 × 1]	[3]
(b) (i)	Ideas suc on a hill/n on flat lan over 1000 Apennine etc.	nour nd at) me	ntain/ the	top of	a hill	/plate	au;	l area;						[3 × 1]	[3]
(ii)	Ideas suc	h or												[] ~ 1]	[5]
(ii)	Defensive Controls (Above flo Building r Near raily Route to (Near a wa etc.	e site pass od le nate vay l Fogg	e; age evel (rials/ ine/g gia a	of rive /wood good c nd Na	er; lland; comm aples;	nunica								[4 × 1]	[4]
(iii)	Ideas suc loss of wo loss of far habitats of destroys of species u reclamatic air pollution water/rive specified acid rain of specified etc.	oodla rmla lestr ecos nde on o on; er po impa (dev	and/f nd/h oyec syste r thre f wel llutic act o .);	edger l; ms/fo eat/ext tlands on; f litter	ows/f od ch tinctio /swai	ields; nains; on; mps; nviron								[5 × 1]	[5]

	Page	e 5	Mark Scheme	Syllabus	Paper	
			IGCSE – October/November 2013	0460	11	
	(c) L	.evel	marking			
	S	<u>evel</u> Stater settler	nents including limited detail on reasons for function of	F	[1–3 ma	arks]
	L N	/lore	<u>2</u> named example developed statements on reasons for function of settle AX 5 marks if no named example	ment.	[4–6 ma	arks]
	L N S C L I I	<u>evel</u> Jses Aore settler Candi Capita Admir	<u>3</u> named example (e.g. Liverpool). developed statements on reasons for function of name nent including some place specific reference. dates may refer to functions such as:	d	[7 ma	arks]
	F	Port				
	I	ouris	t resort			[7]
					[Total:	25]
3	(a) (nysical = plants/ice/temperature change hemical = water/oxygen/acids/plants			
		В	oth needed for 1 mark			[1]
	(i		= Freeze/thaw/frost shattering = Carbonation/solution		[2 × 1]	[2]
	(ii	, S C C O A	eas such as: eeds fall into cracks in rocks; eeds/plants/roots grow in cracks; acks widened/rocks broken apart; ganic acids help decomposition of rocks; nimals may burrow/weaken rocks; c.		[3 × 1]	[3]
	(iv	, rc w s ir n h h ri p w	eas such as: cks with cracks are likely to experience freeze-thaw eathering ; ome 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 se of 10C; esence of absence of plants/animals/vegetation will eathering; c.	ze thaw is es with every	ırage biolog [4 × 1]	-

Page 6	Mark Scheme	Syllabus	Paper	
	IGCSE – October/November 2013	0460	11	
la jc re s s le c	deas such as: arge areas of bare rock/not many plants/not much vege 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.	etation;	[3 × 1]	[3]
	deas such as: ligh temperatures during the day; leat outer layers of rock; Therefore expansion/rock expands (dev.); Colder temperatures at night; Cause contraction /rock contracts (dev.); Causes stresses/strains in rock; So outer layer peels away/like onion skin; Constant repetition etc.	not double credit.		
	IB : Diagram is not compulsory		[5 × 1]	[5]
	-	ining characterist	[1–3 ma ics of climate	
Level			[4–6 ma	rks]
	named example. developed statements describing and/or explaining ch t.	naracteristics of cl	imate of trop	oical
NB M	AX 5 marks of no named example			
Comp	<u>3</u> named example (e.g. Sahara Desert). prehensive and accurate statements describing and ex pical desert, including some place specific reference.	plaining characte	[7 ma ristics of clim	-
Temp Preciµ Distar High ∣ Latitu	idates may refer to ideas such as: perature pitation nce from ocean pressure de ocean currents			
Rains	shadow			[7]
			[Total:	251

Page 7	,	Mark Scheme	Syllabus	Paper	
		IGCSE – October/November 2013	0460	11	
(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 resis rock below is undercut/hard rock forms an overh apse of hard rock/overhang falls/hard rock falls; es back/retreats/forms a gorge; 1 for processes hydraulic action/abrasion/solutio	ang;	[3 × 1]	[3
(iv)	Valle More Less Rive And Rive Is fas	rences such as at Y: ey is wider; e likely to have a flood plain; e gently sloping; 5 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 discr		h can be lin [4 × 1]	ked [4
(a) (i)	distri form 200k Clos	s such as: ibutaries/river splits into many branches; ed by Ganges and Brahmaputra/two rivers; am across; e to Bay of Bengal/north of/next to/flows into; angladesh; ate;		[3 × 1]	[3
(ii)	Depo 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; wth of vegetation raises it above sea level; ibutaries form/river divides into many branches;			

	Pa	ge 8				Mark So	cheme	•		Sylla	abus	Paper	
				IG	icse – C	October/	/Nove	mber 20	13	04	60	11	
	(c)	<u>Lev</u> Sta	<u>rel 1</u> temer	narking nts includi s of living	-		descri	bing ber	efits and/o	or		[1–3 ma	arks]
			<u>el 2</u> es nan	med exarr	ıple							[4–6 ma	arks]
				veloped st s of living			bing b	enefits a	nd/or				
		NB	MAX	5 marks i	f no nam	ned exan	nple.						
			<u>el 3</u>			0		-				[7 ma	arks]
			npreh	med exam nensive ar		-			oing benef	its and/o	r difficulti	es of living o	on a
		Car	ndidat	tes may re	efer to be	enefits a	nd diff	iculties s	uch as:				
		Agr Floo Foc	ation icultur oding od sup	re oply	-14 ¹								
			nstruc [:] nspor	tion diffice t	lities								[7]
												[Total:	: 25]
5	(a)	(i)	Coal	l mining								[1]	[1]
			comp	line in mot puter mar s of 200 00	ufacture	;	-		e in crease of	30000		[2 × 1]	[2]
		(iii)	Com Subs Impa	acts of me	om abroa terials/e.g chanizat	g. plastic tion/auto	cs replomation	lacing iro n/develo	on and ste pment of t things abr	echnolog	ıy;	[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

	Pag	e 10)	Mark Scheme	Syllabus	Paper	
				IGCSE – October/November 2013	0460	11	
		<u>Lev</u> Stat	<u>el 1</u> temei	arking nts including limited detail explaining the facto gy industries.	ors which have	[1–3 ma attracted	-
		<u>Lev</u>				[4–6 ma	arks]
		Mor indu	e de ustrie:	med example veloped statements explaining the factors which s. 5 if no named example	have attracted	high techno	logy
			es nar	med example (e.g. Cambridge Science Park). nensive and accurate statements including some pla	ace specific refere	[7 ma ence.	arks]
	Candidates may refer to ideas such as: Workforce Transport Land availability Cost of land Government incentives/investment Universities						
				nental factors			[7]
						[Total:	25]
6	(a)	(i)	Е			[1]	[1]
		(ii)	peop they there fami	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		[0]
	(1	iii)	harv mec man	s such as: esting is taking place/cutting the crop; hanised/using machinery; ual/hand labour/collecting waste/picking up crop;		[2 × 1]	[2]
			tract etc.	ors/trailers/truck taking crop away;		[3 × 1]	[3]

Page 1	1	Mark Scheme	Syllabus	Paper	
		IGCSE – October/November 2013	0460	11	
(iv)	crop there som too r irriga glas in ar gent fertil stro	s such as: s need to be grown where there is an adequat e must be sufficient rainfall for crops to grow; e crops need sunshine to ripen; nuch rainfall may waterlog/flood crops; ation is used when rainfall is low; shouses are used when temperatures are low/ eas with frost/long winter hardy crops will be g ly sloping land is easy to mechanize; e soils enable good crop growth; ng winds/hail will ruin the crops; isers will be needed if soil is poor;	/to protect from frost;	[4 × 1]	
					•
(b) (i)	Field Field Woo A ne More	nges such as: I sizes have been increased/not so many fields I boundaries have been removed; dland has been cut down/deforestation; w housing estate has been built; e houses are used by non-agricultural workers ntry road changed to dual carriageway/dual ca	/less houses for worke		[
(ii)	more as fi use grea such batte more as th	s such as: e mechanisation; elds are bigger they can use bigger machines of fertilizers; of pesticides/herbicides; ter use of irrigation; as sprays which use water pumped from aqu ery farming of poultry/pigs; e space as hedgerows removed/field boundat here is less woodland; crops/HYV's/green revolution/or examples;	ifer (dev.);	ice for farr	mir
	etc.	crops/rrr v s/green revolution/or examples,			
			[5 × 1 mark or developr	nentj	[
(c) Lev	/els m	arking			
	<u>/el 1</u> iteme	nts including limited detail which explain why th	nere are food shortages.	[1–3 ma	ark
Use Mo	re de	ned example veloped statements which explain why there a (5 if no named example]	re food shortages.	[4–6 ma	ark
	<u>/el 3</u> es na	ned example (e.g. Ethiopia).			[

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]