

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		e 2 Mark Scheme Syllabus		·A V	
		IGCSE – October/November 2013	0460	TO2	
(a)	(i)	68.1babies/infants/children out of 1000 die in their 1 st year/l	pefore their first	w xtraps	Ton
	(ii)	10.2 – 8.00			
	()	= 2.2 (per 1000)			- 1
				[2 × 1]	[2
	(iii)	Ideas such as:			
	()	long life expectancy/higher life expectancy;			
		good treatment of diseases/medicines/vaccinations/can affe	ord medicines;		
		good health care facilities/medical facilities/hospitals;			
		investment in doctors/nurses etc.; investment in care homes/services for elderly;			
		availability of pensions;			
		good diet/food supply/no famine/no starvation/no hunger;			
		no drought/good water supply;			
		sanitation/hygiene; education/advertisements/government support about dise	asos/what's ar	od or bar	l fo
		health;			
		low levels of named diseases; etc.		[3 × 1]	[3
	(iv)	Ideas such as:			
	(1•)	Little availability of contraception/do not use protection/famil	ily planning;		
		not educated re. Contraception/family planning;	5 1 0 ⁷		
		not likely to be able to afford contraception/family planning;			
		likely to want children to work on the land; likely to want children to send out to earn money;			
		likely to want children to look after parents in old age;			
		not likely to be affected by government policy to reduce far	nily size;		
		likely to have large families due to tradition/culture;	-		
		likely to have large families due to religious influences;			
		high infant mortality rate/high death rate amongst children;			
		want boys so keep trying; many women don't work;			
		male status/virility;			
		people marry young;			
		•		[4 × 1]	[4

Page 3				Syllabu	s ~	r			
			IGCS	E – October	/Novembei	[.] 2013	0460	Pag	
(b) (Many be Some co of anom Max 2 fo	ly higher i etween 2 a ountries ir aly); or evidenc		rica most be ents with sa intry & statis	elow 2% in S ame growth		s nomalies (or exa	
								L	
(1	ii)	such as or overu lack of v	do not hav food supp se of agriv vork;	e enough re blies/starvatio cultural land,	on occurs/fa /overgrazing	mine (dev.); g (dev.);			
		want to to of hospit overcrow traffic co atmosph inadequ deforest increase high cos low/less start to co	reduce lev tals/overci wded hous ongestion; neric pollu ate water ation/loss ed poverty st for gove economic construct s	vels of diseas rowded hosp sing/not enou tion; supply/sanit of natural ve ;	se or examp bitals/can't a ugh space to ation; egetation; nt; s; etc.	oles/not enou fford hospita	ugh/poor acce	education levels ess to health car es; [5 × 1]	e/lack
(c) l	_ev	els marki	ing						
		<u>el 1</u> tements i	ncluding I	imited detail	which sugg	est reasons	for internatior	[1–3 m nal migration.	arks)]
ī	Jse		example. ped stater		explain rea	sons for inte	rnational migr	[4–6 n ration.	narks]
1	١B	MAX 5 w	vith no nar	ned example	Э.				
		<u>el 3</u>		/ - ·		、		[7 n	narks]
() E E F	Con som Can Emp Sala Serv	nprehens ne place s ndidates r ployment ary vices nd supply	sive and specific re may refer opportun	ference. to ideas suc	atements re		oth pulls an	i d pushes , incl	uding [7]
\		• •							
[ught ural disas							

Page 4	Mark Scheme Syllabus	~~~ V	
	IGCSE – October/November 2013 0460	They a	
(i)	may be expressed in many different ways e.g.: Rural are smaller/urban are more built up Rural more spread out/urban more clustered Rural areas has less services/urban has more services Rural has lower population density/urban has higher population densi Rural has less people living there/urban has more people living there etc.	ty	Abrie
	NB: Must be comparative	[1]	[1]
(ii)	A = Linear B = Nucleated	[2 × 1]	[2]
(iii)	Ideas such as: Buildings are far apart/spread out; And separated by countryside/farmland etc.; Population density is low; There is likely to be few services; No clear centre to a settlement;		
	etc.	[3 × 1]	[3]
, , ,	Ideas such as: on a hill/mountain/high land/in an upland area; on flat land at the top of a hill/plateau; over 1000 metres above sea level; Apennines; etc.	[3 × 1]	[3]
(ii)	Ideas such as: Defensive site; Controls passage through valley; Above flood level of river; Building materials/woodland; Near railway line/good communications or transport; Route to Foggia and Naples; Near a water supply/river for water/river for fish; etc.	[4 × 1]	
(iii)	Ideas such as: Ioss of woodland/forest/deforestation; Ioss of farmland/hedgerows/fields; habitats destroyed; destroys ecosystems/food chains; species under threat/extinction; reclamation of wetlands/swamps; air pollution; water/river pollution; specified impact of litter on environment;	[4 ^ 1]	[4

Page	5	Mark Scheme	Syllabus Syllabus	r
U		IGCSE – October/November 2013	0460	2
(c) Le	evels ma	arking		Cannb.
St	<u>evel 1</u> tatemen ettlemen	ts including limited detail on reasons for function of t.	Syllabus 0460 [1.	-3 m
U: M	lore dev	ned example eloped statements on reasons for function of settlem 5 marks if no named example	1.	–6 marks
U: M Se Ca In Ao	lore deve ettlemen andidate apital cif dustrial dministra arket to	town ative centre		[7 marks
	ort ourist re	sort		[7
		Soft		[/
			[Total: 25
(a) (i)		ical = plants/ice/temperature change nical = water/oxygen/acids/plants		
	Both	needed for 1 mark		[1
(ii)		reeze/thaw/frost shattering Carbonation/solution	[2	× 1] [2
(iii)	seeds seeds crack orgar	s such as: s fall into cracks in rocks; s/plants/roots grow in cracks; s widened/rocks broken apart; nic acids help decomposition of rocks; als may burrow/weaken rocks;	[3	× 1] [3
(iv)	rocks weath some in are more high t highe rise o prese	s such as: with cracks are likely to experience freeze-thaw hering ; c rocks/carbonates may be dissolved by chemicals in eas where temperatures fluctuate around zero freeze likely to occur; temperature range will lead to exfoliation; er temperatures increase rate of weathering/ doubles of 10C; ence of absence of plants/animals/vegetation will e hering;	thaw is with every ncourage/discourage	biologica × 1] [4

Page 6		Mark Scheme		Syllabus	A I
•	IGCSE -	- October/Novem	ber 2013	0460	800
larg join red, stee scre less sho	ted rock/cracks; /orange/brown roc ep/vertical slopes, ee/loose rock/bou s steep at base; rt grass/low plant es/holes in rock;	/cliff;	-	etation;	[3 × 1] [3]
010.					[0 ~ 1] [~]
Hig Hea The Col Cau Cau So	der temperatures use contraction /ro uses stresses/stra	rock; /rock expands (de at night; ock contracts (dev ains in rock; away/like onion s	/.);		
Cre	dit information in	text or labelling o	f diagram but do	not double crea	lit.
NB	· Diagram is not a				
	-	compulsory			[5 × 1] [5]
c) Levels r <u>Level 1</u>	narking ents including lim		bing and/or expla	aining character	[5 × 1] [5] [1–3 marks] ristics of climate of
(c) Levels r Level 1 Stateme tropical Level 2	narking ents including lim desert.		bing and/or expla	aining character	[1–3 marks]
c) Levels r <u>Level 1</u> Stateme tropical <u>Level 2</u> Uses na	narking ents including lim desert. amed example.	ited detail descrit		-	[1–3 marks] ristics of climate of
(c) Levels r <u>Level 1</u> Stateme tropical <u>Level 2</u> Uses na More de desert.	narking ents including lim desert. amed example.	ited detail describ		-	[1–3 marks] ristics of climate of [4–6 marks]
(c) Levels r Level 1 Stateme tropical Level 2 Uses na More de desert. NB MA> Level 3 Uses na Compre	marking ents including lim desert. amed example. eveloped stateme K 5 marks of no na amed example (e. shensive and accu	ited detail describ ents describing an amed example g. Sahara Desert	d/or explaining c). describing and e	haracteristics o	[1–3 marks] ristics of climate of [4–6 marks]
(c) Levels r <u>Level 1</u> Stateme tropical <u>Level 2</u> Uses na More de desert. NB MAX <u>Level 3</u> Uses na Compre of tropical Candida Temper Precipita Distance High prediction	narking ents including lim desert. amed example. eveloped stateme (5 marks of no na amed example (e. thensive and accu- tal desert, includir ates may refer to in ature ature ation e from ocean essure	ited detail describ ents describing an amed example .g. Sahara Desert urate statements on ng some place spo	d/or explaining c). describing and e	haracteristics o	[1–3 marks] ristics of climate of [4–6 marks] f climate of tropical [7 marks]
(c) Levels r <u>Level 1</u> Stateme tropical <u>Level 2</u> Uses na More de desert. NB MAX <u>Level 3</u> Uses na Compre of tropica Candida Temper Precipita Distance High pre Latitude	narking ents including lim desert. amed example. eveloped stateme & 5 marks of no na amed example (e. thensive and accu at desert, includir ates may refer to in ature aton e from ocean essure ean currents	ited detail describ ents describing an amed example .g. Sahara Desert urate statements on ng some place spo	d/or explaining c). describing and e	haracteristics o	[1–3 marks] ristics of climate of [4–6 marks] f climate of tropical [7 marks]

age 7 Mark Scheme IGCSE – October/November 2013 (i) Plunge pool (ii) W = 1 mark there is a steep gradient/contours are close toge (iii) Ideas such as: Hard rock & soft rock layers; Hard rock is resistant to erosion/soft rock is less	ther = 2^{nd} mark [2 × 1] [2
 (ii) W = 1 mark there is a steep gradient/contours are close toge (iii) Ideas such as: Hard rock & soft rock layers; 	[1] [1] ther = 2^{nd} mark [2 × 1] [2]
(iii) Ideas such as: Hard rock & soft rock layers;	ther = 2 nd mark [2 × 1] [2
Hard rock & soft rock layers;	
Soft rock below is undercut/hard rock forms and Collapse of hard rock/overhang falls/hard rock fa Moves back/retreats/forms a gorge; Max 1 for processes hydraulic action/abrasion/s etc.	verhang; ills;
 (iv) Differences such as at Y: Valley is wider; More likely to have a flood plain; More gently sloping; Less V-shaped River is wider; And deeper/more volume; River more likely to be carrying out deposition; More gentle long profile; Is faster flowing; Z is a tributary but Y is the main river; etc. 	
NB 1. Accept above approach or the reverse in 2. Answer must be comparative (or 2 sets of	
 (i) Ideas such as: distributaries/river splits into many branches; formed by Ganges and Brahmaputra/two rivers; 200km across; Close to Bay of Bengal/north of/next to/flows into In Bangladesh; Arcuate; etc.); [3 × 1] [3
 (ii) Ideas such as: Deposition of sediment/alluvium by river; As speed of flow slows down/cannot carry load; Especially if river is heavily laden with silt (dev.); Absence of major tidal flows/currents; Impact of salt water causes further deposition; Growth of vegetation raises it above sea level; Distributaries form/river divides into many branc etc. 	

	e 8	Mark Scheme	Syllabus Syllabus
		IGCSE – October/November 2013	0460 23
(c)	Levels m	arking	Syllabus 0460 [1-3
	Level 1	-	[1-3 9
		nts including limited detail describing benefits and/o	or
C	JITTICUITIE	s of living on a delta.	
l	Level 2		or [1-3][1-3][4-6 mark
ī	Jses na	med example	-
r	More de	veloped statements describing benefits and/or	
		is of living on a delta.	
		-	
ſ	NR MAX	5 marks if no named example.	
l	Level 3		[7 mark
		med example (e.g. Ganges Delta).	
	Compreł delta.	nensive and accurate statements describing benefi	its and/or difficulties of living on
C	Jella.		
(Candida	tes may refer to benefits and difficulties such as:	
,	Irrigation		
	Agricultu		
	Flooding		
	Food sup		
	Construc Transpoi	ction difficulties]
	папэры	t i i i i i i i i i i i i i i i i i i i	I
			[Total: 2
(a) ((i) Coa	l mining	[1] [
	ii) Decl	line in motor vehicle industry but increase in	
1		puter manufacture;	
(30 000 [2 × 1] [
(s of 200 000 employees compared with increase of 3	
	Loss		
	Loss ii) Idea	s such as:	
	Loss ii) Idea Com	s such as: petition from abroad/foreign companies;	
	Loss ii) Idea Com Subs 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	el; echnology;
	Loss ii) Idea Com Subs Impa	s such as: petition from abroad/foreign companies; stitute materials/e.g. plastics replacing iron and stee	el; echnology;

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(iv)	Ideas such as: Recession/economic decline/country earns less mon Loss of jobs/unemployment; Poverty; Negative multiplier; Less money available to spend locally/less governme etc.; Shops may have to close down; Suppliers may go out of business; Need for workforce to retrain/people left with wrong s Less atmospheric pollution; Employment opportunities for computer technicians;	ent spending on schools/hospitals
(b) (i)	Less exports; Out migration; etc. Inputs = items which are brought into the factory to u production/raw materials for the industry	[4 × 1] [4]
	Processes = what happens in the factory to convert t materials into finished products	the raw
	Outputs = the finished products/the items which have	e 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 ge is a raw material location/located near sugar beet far as it uses large quantities of raw materials/sugar bee raw materials are more bulky than finished products; as weight is lost in processing (dev.); transport costs can be saved by locating close to far sugar is delivered nationwide/market is not just in or area so location next to it is impossible; sugar is not perishable etc.	rms (eval); et; ; ms;

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

Pa	ge 1	0	Mark Scheme	Syllabı	us & r	
			IGCSE – October/November 2013	0460	No.	
(c)	Lev	vels ma	arking		Call.	76.
	Sta		ts including limited detail explaining the ly industries.	factors which	Indexe attracted	hış
		vel 2			[4–6 m	arks
	Mo ind	ore dev ustries.	ned example veloped statements explaining the factors w a. 5 if no named example	vhich have attra	acted high techno	olog
	Use		ned example (e.g. Cambridge Science Park). ensive and accurate statements including som	ne place specific	[7 ma	arks
	Wo Tra Lar Co Go Un	orkforce ansport nd avail st of lar vernme iversitie	ilability nd ent incentives/investment		[Total	[7 : 25
(a)	(i)	Е			[1]	[1
	(ii)	peopl they c there	s such as: le want to farm to earn a living/make a profit/m can produce large surplus/quantities of produc is good access to markets/large demand for p y business;	cts/more than fa	amily can eat;	
		etc.			[2 × 1]	[2
	(iii)	harve	s such as: esting is taking place/cutting the crop; anised/using machinery;			
			al/hand labour/collecting waste/picking up cro prs/trailers/truck taking crop away;	p;		

Pag	e 11	1		Mark Scheme)	Syllabus	S.
			IGCSE -	 October/Nove 	mber 2013	0460	1020
(iv)	crops there some too m irriga glass in are gently fertile stron	must be sufficie crops need su uch rainfall ma tion is used whe houses are use as with frost/loo y sloping land is soils enable go g winds/hail will	ent rainfall for cr nshine to ripen; y waterlog/flood en rainfall is low; d when tempera	crops; atures are low/to p crops will be grov nize;	protect from frost;	[4 × 1] [4
(b)	(i)	Field Field Wood A new More	boundaries hav dland has been w housing estat houses are use	• •	d; station; ; ltural workers/les	ss houses for wor ageway has been b	
	(ii)	more as fie use c great such batte more as the	of fertilizers; of pesticides/her er use of irrigati as sprays which ry farming of po space as hedge ere is less wood	hey can use bigg bicides; ion; h use water pum pultry/pigs; gerows removed	examples;		
(c)	Lev	els ma	arking				
	<u>Lev</u> Stat		ts including limi	ted detail which	explain why ther	e are food shortage	[1–3 marks əs.
	Mor	es nam re dev	ned example eloped stateme 5 if no named e		n why there are f	ood shortages.	[4–6 marks
	Lev	<u>el 3</u>					[7
			ned example (e.	a Ethionia)			Ľ

