

Wany, Papa Cambridge, com MARK SCHEME for the May/June 2012 question paper

for the guidance of teachers

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 must be read in conjunction with the question papers and the report on the examination.

Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2012 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Page 2	2 Mark Scheme: Teachers' version Syl	labus 7.0	,
r age z		460 Ø	
(a) (i)	Ghana	"Ca	2
(ii)	19.2 2 nd mark for correct calculation shown (ie 28.1 – 8.9) Or BR – DR = Natural population increase.	labus 460 [2 x 1]	Driv.
(iii)	A Spain B Ethiopia C Ethiopia	[]	L
		[3 x 1]	[3]
(iv)	Ideas such as: Good treatment of diseases/or examples/less spread of disease innoculation against diseases; improved health care facilities/can afford healthcare or example training of doctors/nurses; investment in care homes/services for elderly/care for elderly; availability of pensions; no famine/adequate nutrition/food supply/better diet; good sanitation; safe water supplies; healthier lifestyles or examples; education about health; etc.		ne;
		[4 x 1]	[4]
b) (i)	General decrease; 1.45–1.5% to 1.15% or any other pairs of statistics;(1 mark max Peak in 1962/major increase between 1950–58 or 1960–61 where increase occurs; dip in 1960/decreases from 1957/ decrease from 1961 onwards fluctuates; etc.	or other relevant os;	dates
		[3 x 1]	[3]
(ii)	One mark reserved for reference to decrease expected Reasoning to MAX 4 such as: Reduction of birth rates in LEDCs; Smaller families; due to more availability of contraception (dev); due to education re. contraception (dev); less need for children to work in LEDCs; due to more widespread access to education (dev); less likely to need children to look after parents in old age; due to state support/pensions (dev); reduction in IMR/people not needing to have extra children to	[1] [4 x 1]	

government policy/one child policy;

Page 3	Mark Scheme: Teachers' version	Syllabus 7.0 r
	IGCSE – May/June 2012	0460
(c) Levels ma	arking	[1–3 marks]
Statemen	ts including limited detail which suggest reasons e jobs, better services, not enough food, war, dro	for international migration.
		[4_6 marks]

Level 1

Level 2

Uses named example.

More developed statements which explain reasons for international migration.

(e.g. more jobs in destination country where they can work in service sector/factories, greater access to schools/hospitals/clinics, can buy food from shops rather than rely on unproductive farmland, refugees fleeing from war torn areas in fear of their lives, drought prevents them from producing enough food to feed their families etc.)

NB max 5 if no named example; max 6 marks if just give push or pull factors.

Level 3

[7 marks]

[4–6 marks]

Uses named example (e.g. Turkey to Germany).

Comprehensive and accurate statements including some place specific reference Reference must include push and pull factors.

(e.g. more jobs in Germany where they were employed in rebuilding cities like Dresden after World War 2, greater access to schools/hospitals/clinics than in remote mountainous areas of Turkey, refugees fleeing from war torn areas close to Iraqi border in fear of their lives, drought in regions such as central Anatolia prevents them from producing enough food to feed their families etc.)

[7]

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Page 4	1	Mark Scheme: Teachers' version	Syllabus	· S	
		IGCSE – May/June 2012	0460	No.	
(a) (i)	Hous Terra Hous Hous B ha	s such as: sing in B is older/C is newer; aced housing in B/Detached in C; ses have gardens in C, not in B; ses in C are larger than B; we chimneys C don't; ave garages/driveways but B doesn't; etc. NB Must b	e comparative.	Papacan [2 x 1]	Ibrio-
(ii)	П				[1]
(11)		s such as:			[1]
(iii)	cons part indu builc impr builc	ious buildings were old/in disrepair/modernize buildir struction of new housing/apartments; of traffic schemes/new road building (or example suc stries/businesses had closed down/use of land instea ling of new shops/cinemas/leisure opportunities; ove aesthetic value of area /environment; ling of new offices/factories; ent building on Greenfield sites; etc.	ch as inner ring ro		[3]
(iv)		flicts such as:			[0]
	dust traffi conf loss incre loss safe	urbs people/noise (during construction phase); /dirt from construction; c congestion (during construction or when in use); lict over demolition of properties or examples (e.g. ho of jobs if workplaces demolished; eased rents/prices of new residential properties; of historical buildings/heritage/interesting architecture ty issues (on building sites or roads); ure of roads/footpaths; etc.		of locals; [4 x 1]	[4]
(b) (i)	in a radia stret Expl Tran arou alon next	criptions such as: sector/line/wedge; ating out from the CBD; ic.hes from inner city to suburbs; anations such as: isport accessibility; ind railway lines; g major roads; to/along a river or canal; and; etc.			
		Reserve 1 mark	on describe/expla	ain [3 x 1]	[3]
(ii)	MED varie in ma espe howe with but in	ect candidates to answer question by referring to DC and LEDC cities, however no reserve on either. ety of ideas such as: any cities there are zones of specific land uses; ecially industry (dev); ever sometimes there is a more concentric pattern; lower quality residential in inner city (MEDC) (dev); in LEDC higher quality often in inner city (dev); me cities redevelopment has made models like this i	Be prepared to	accept a	

		2.
Page 5	Mark Scheme: Teachers' version	Syllabus Syllabus
	IGCSE – May/June 2012	0460

Level 1

ambridge.com Statements including limited detail describing the main features of a squatter settlement. (e.g. self built homes, unmade roads, homes built close together, informal businesses etc.)

Level 2

Uses named example.

More developed statements describing the main features of a squatter settlement. (e.g. homes built by local people who live in them using materials found on dumps, unmade roads which flood when it rains, flimsy homes built close together which are a fire hazard, many people carry out small businesses from their homes such as recycling scrap materials etc.)

NB Max 5 if no named example

[1-3 marks]

[4–6 marks]

[7 marks]

Level 3

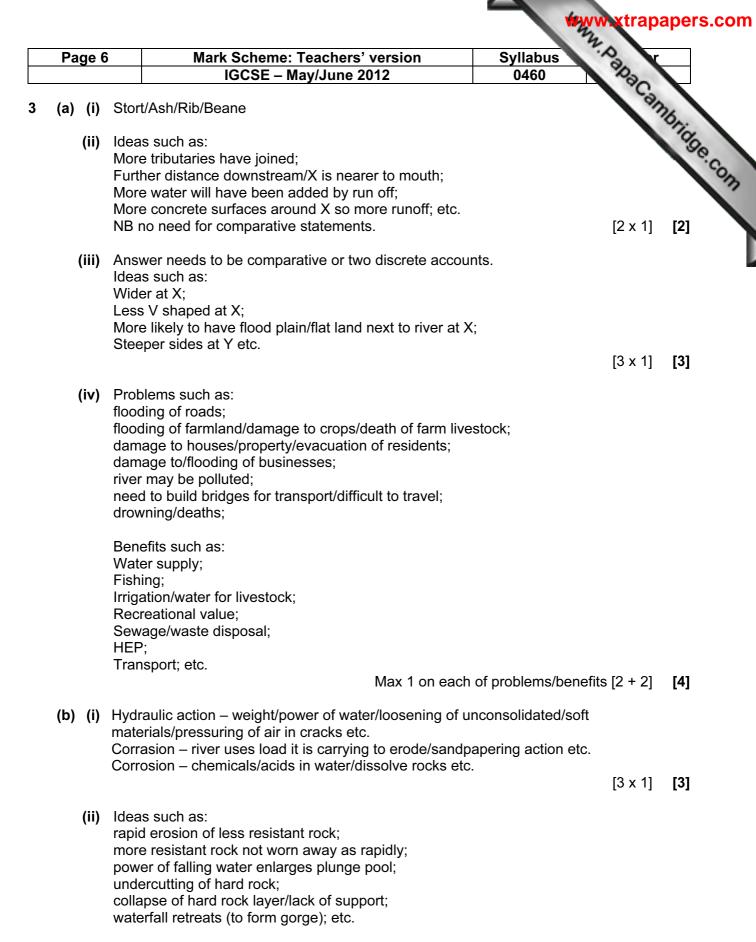
Uses named example (e.g. Rio de Janeiro).

More developed statements describing the main features of a squatter settlement including some place specific reference.

(e.g. homes in Rocinha built by local people who live in them using materials found on dumps, unmade roads lead to favelas which flood when it rains, flimsy homes built close together which are a fire hazard, many people carry out small businesses from their homes such as recycling scrap materials etc.)

[7]

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Page 7	Mark Scheme: Teachers' version	Syllabus r
	IGCSE – May/June 2012	0460 230
c) Levels n	narking	Syllabus 0460 [1–3 marks] w lake is formed. bend of meander eroded etc.)
Level 1		[1–3 marks]
Stateme	ents including limited detail explaining how an oxbo	ow lake is formed
		hand of moondor orodod ato)
	er cuts off a meander, erosion during floods, outer	bend of meander eroded etc.)
(e.g. rive <u>Level 2</u>	er cuts off a meander, erosion during floods, outer	[4–6 marks]
(e.g. rive <u>Level 2</u> More de	er cuts off a meander, erosion during floods, outer eveloped statements on how/why an oxbow lake is	[4–6 marks] formed.
(e.g. rive <u>Level 2</u> More de (e.g. Ou	er cuts off a meander, erosion during floods, outer	[4–6 marks] formed.
(e.g. rive <u>Level 2</u> More de (e.g. Ou	er cuts off a meander, erosion during floods, outer eveloped statements on how/why an oxbow lake is ter bend of meanders eroded due to faster flowing lood, former meander sealed by deposition etc.)	[4–6 marks] formed.

Comprehensive and accurate statements explaining how and why an oxbow lake is formed, including appropriate labelled diagram(s).

- NB 1. Diagram must be labelled (or numbers + key) for L3 credit.
 - 2. Do not double credit text and annotation (other than allowing access to L3)

[7]

Page	8	Mark Scheme: Teachers' version	Syllabus	r
		IGCSE – May/June 2012	0460	
(a) (i)	Him	alayas	Co	mb
(ii)	plate crus	is such as: es move/push towards each other/collide/pressure; t/rocks get bent and crumpled/into a series of folds; rs of crust gets uplifted as a result,	Syllabus 0460 [2 x 1]	[2]
(iii)	B =	Destructive/Convergent Constructive/Divergent Conservative/transform		
			[3 x 1]	[3]
(iv)	Sub Grea Frict Des Build Mag	is such as: duction of one plate (oceanic)/sinks; ater density of oceanic plate; tion/heating; truction of oceanic plate/turns to magma/melts; d up of magma/pressure; ma rises through lines of weakness/fissure/crack; a solidifies to create volcano;		
			[4 x 1]	[4]
(b) (i)	it is there fricti	is such as; an area where plates meet/at/on/near to a plate bou e are many faults/lines of weakness; on/build up of pressure; ssure release/becomes too great until released; etc.		50
			[3 x 1]	[3]
(b) (ii)	Poo Whit As b High Poo The Lack Poo	is such as: r quality buildings/infrastructure/roads/bridges; ch easily collapse (dev); building regulations are not enforced (dev); n population densities; r medical services/hospitals/get destroyed; refore people cannot be properly treated for their inj c of planning/emergency procedures/emergency she r education eg earthquake precautions;		
	Lack	c of money for re-building/assistance/rescue; etc.	5 x 1 mark or development]	[5

		2.	
Page 9	Mark Scheme: Teachers' version	Syllabus Syllabus	
	IGCSE – May/June 2012	0460	

Level 1

embridge.com [1-3 marks] Statements including limited detail explaining why people live close to a volcano. (e.g. soils are fertile; they can get hot water/electricity from the volcano; the volcano attract tourists; the volcano provides raw materials; they have lived there all their lives; they are close to family/friends; they work in the area; they cannot afford to move; they are willing to take the risk etc.)

Level 2

Uses named example of a volcano.

More developed statements explaining why people live close to a volcano.

(e.g. soils are fertile and yields of crops are high; they can use or generate geothermal power/energy; the volcano attracts tourists and they can get jobs as tour guides; the volcano provides raw materials such as sulphur; they are confident in prediction and willing to take the risk etc.)

(NB Max 5 if no named example)

[4-6 marks]

[7 marks]

Level 3

Uses named example (e.g. Mt Etna volcano).

Comprehensive and accurate statements explaining why people live close to a volcano, including some place specific reference.

(e.g. The fertile volcanic soils support extensive agriculture with vineyards and orchards spread across the lower slopes of the mountain and the broad Plain of Catania to the south.; they can generate electricity from the volcano using geothermal power; the volcano attracts tourists and residents of nearby Messina and Catania earn money from renting accommodation to tourists; the Italian government have invested money in prediction and they are willing to take the risk etc.)

[7]

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Page 10	Mark Scheme: Teachers' version	Syllabus	r
	IGCSE – May/June 2012	0460	
(a) (i) Fe	ebruary		amb
(ii) 1.5 29	.5(C) 29.5–28(C) (1 mark for showing method)	Syllabus 0460 [2 x	1]
Lo Su Up Hig	deas such as: .ong/many sunshine hours; Sunny/sunshine all year round; Jp to 250 hours of sunshine /never lower than 200 hours High temperatures/never gets too cold/hot/warm all year Average never below 28°C/always between 28–30 degre	s monthly; round;	
Cle for Sh Sa Are Re	deas such as: Clear/blue seas; or swimming/boating; Sheltered/calm waters; Sandy/white beaches for sunbathing; Areas of tropical vegetation e.g. palm trees; Relaxing/peaceful atmosphere; Clear blue skies/sunshine; etc.	[4 x	1] [4]
Hiệ Nc Ju	deas such as : Higher in November than June/increased in November; November 38 000–39 000; June 24 000 allow tolerance of 23 000–24 000; Greater number of between 14 000–16 000 in November	,	1] [3]
Be job ex for en de cu ref inc sa Di inc los im no ex se	deas such as: Benefits: obs are created for local people/earn money; examples of jobs (dev); oreign exchange/income too country/boosts economy; enabling spending on education/hospitals etc.; levelopment of infrastructure (water, electricity, transpor cultural exchange; etention of culture/traditions; ncreased market for local farmers; sales of local craft items. Disadvantages: ncrease in local traffic congestion/atmospheric pollution oss of local culture/traditional way of life; mpact of behaviour of tourists/drunkenness etc.; noise from tourists; exploitation/low paid jobs/long hours; seasonal work; shortage of water supplies; itter from tourists;		

Page 11	Mark Scheme: Teachers' version	Syllabus Syllabus
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Level 1

mbridge.com Statements including limited detail describing how tourism is damaging the natural environment

(e.g. vegetation destroyed/plants killed, animals killed, fumes from exhausts/traffic, over use of water, litter from tourists on beaches, waste from hotels, etc.)

Level 2

Uses named example

More developed statements which describe how tourism is damaging the natural environment.

(e.g. sand dune vegetation destroyed; ecosystems threatened; food chain disrupted; loss of habitats; noise from construction/traffic scares animals away; fumes from exhausts/traffic damages roadside vegetation, over use of water supplies lowers water table; litter from tourists on beaches/in sea may kill sea turtles; waste from tourists dumped on landfill sites causes seepage of toxins into water table; more CO2 from deforestation increases global warming; etc.)

NB Max 5 if no named example

Level 3

Uses named example (eg Villingili, Maldives).

Comprehensive and accurate statements including some place specific reference.

(e.g. tropical coconut palms destroyed for building of hotels; ecosystems threatened as food chain disrupted, loss of habitats for lizards; ferry every 10 minutes from Male pollutes seas, noise from construction/traffic scares animals away; litter from tourists on beaches/in sea may kills reef fish; waste from tourists incinerated polluting atmosphere, coral reefs destroyed by tourists trampling on them/taking samples home etc.)

[7]

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[Total: 25]

[7 marks]

[1–3 marks]

[4-6 marks]

Page	12	Mark Scheme: Teachers' version	Syllabus	· ~ ~	
		IGCSE – May/June 2012	0460	Than 1	
(a) (i)) F	Producing things on farms to sell/makes a profit/earns a	in income;	WWW xtrap	36
(ii)) [Differences such as:			7
()	Ń	lore vines within 2 km of village;			
		Nore arable between 6–8 km/more wheat & Barley;			
		/lore pasture 6–8 km; /lore coppice/wood 6–8 km;			
		NB must be com	parative state	ments. [2 x 1]	[2]
(iii)	,	deas such as:			
		rines kept near village as they need lots of attention; rable away from village as it needs lots of land;			
		nore irrigated land closer to village as it takes a lot of la	bour;		
		ines close to village to be protected from thieves; urther away from village has more space available; etc.			
				[3 x 1]	[3]
(1.7)	<u>х т</u>				
(iv)	,	deas such as: oil fertility/quality/depth;			
	r	elief/height/slope/flat land;			
		mount of rainfall/precipitation;			
		number of frost free days; Imount of sunshine;			
	te	emperature;			
	C	Irainage; etc.		[4 x 1]	[4]
				[+ ~ ']	L
(b) (i)		Removing field boundaries – to create more land/bigg tc.	er fields/easie	er to use mach	nines
	С	hemical spraying – to kill insects/pests.			
	F	ertilizer spread on crops – to increase yields/make ther	n grow better.	[2 v 1]	[2]
				[3 x 1]	[3]
(b) (ii)	,	deas such as:			
		atural vegetation/trees destroyed; oss of habitat (dev);			
		ncluding nesting space for birds (dev);			
		oisoning of insects;			
		mpacts on food chain (dev); eduction in biodiversity (dev);			
		ertilizers washed into rivers/run off of fertilizers;			
	n	itrates increase in rivers;			
	-	rowth of algae (dev); ack of oxygen/eutrophication;			
		ills aquatic life (dev);			
	s	oil erosion;			
		ourning stubble/vegetation; reates air pollution;(dev)			
		ir pollution from machines; etc.			
		•	5 x 1 mark or	development]	[5]

[5 x 1 mark or development] [5]

Page 13	Mark Scheme: Teachers' version	Syllabus Syllabus	, T
	IGCSE – May/June 2012	0460	03
	norking		arks] ubsister
c) Levels r	narking	·	76
Level 1		[1–3 m	arks
	ents including limited describing processes carried	out on a small scale s	ubsisten
farm.	5 51		
(e.g. plo	ughing, transplanting, harvesting, watering etc.)		
Level 2		[4–6 m	arks]
Uses na	med example	-	-
Uses na More de	med example eveloped statements describing processes carried	-	-
Uses na More de farm.	eveloped statements describing processes carried	out on a small scale s	ubsistence
Uses na More de farm. (e.g. plo	eveloped statements describing processes carried bughing using plough drawn by water buffalo, harv	out on a small scale s	ubsistence
Uses na More de farm. (e.g. plo	eveloped statements describing processes carried bughing using plough drawn by water buffalo, harv al irrigation channels)	out on a small scale s	ubsistence ered using
Uses na More de farm. (e.g. plo	eveloped statements describing processes carried bughing using plough drawn by water buffalo, harv al irrigation channels)	out on a small scale s esting using sickle, wat marks if no named exar	ubsistence ered using

climate

[7]