MARK SCHEME for the May/June 2014 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 May/June 2014 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



	Page 2			Mark Scheme	Syllabus	Paper	
				IGCSE – May/June 2014	0460	11	
1	(a)	(i)	610	– 630 million		(1 mark)	[1]
		(ii)	Europe Sub-Saharan Africa			× 1 mark)	[2]
		rials; supply); lity rate; sing; (3	× 1 mark)	[3]			
	(b)	(i)	lden	tification of birth rate (18) and death rate (6)		(1 mark)	
			Birth	rate minus death rate / 18 – 6		(1 mark)	
			= 12	per thousand	(3	× 1 mark)	[3]
		(ii)	1 st ic 2 nd ic 3 rd ic 4 th ic	s such as; lea is general decline in death rate; dea is steeper decline up to 1980; dea is it levels off/more gradual/slow decline after 1 lea can be any set of statistics plus years for examp)/or another pair of years	1980; le from 22 (1960) to 6 (2010)	per
			N.B.	: Not necessary for per 1000/units to be stated.	(4	× 1 mark)	[4]

Page 3	Mark Scheme	Syllabus	Paper
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(iii) Ideas such as:

no abortion available; little availability of contraception/family planning; not educated re. contraception; not likely to be able to afford contraception; 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 family size; likely to have large families due to tradition/status; likely to have large families due to religious influences; high infant mortality rate/have greater number of children in the hope some will survive; lower cost of raising children; polygamy; women marry at younger age; women don't have careers; prefer boys to carry on family name;

N.B.: doesn't have to be comparative. Can accept reverse for MEDC. Allow examples of methods of contraception as development idea.

 $(5 \times 1 \text{ mark or development})$ [5]

(c) Levels marking

<u>Level 1</u> (1–3 marks) Statements including limited detail which explain why it has a low population density.

<u>Level 2</u> (4–6 marks) Uses named example. More developed statements which explain why it has a low population density. (N.B.: Max 5 if no named example or incorrect example)

<u>Level 3</u> (7 marks) Uses named example. Comprehensive and accurate statements **including some place specific reference.**

Content Guide: Answers are likely to refer to; relief; accessibility/isolation; climate/low or high temperatures depending upon location/rainfall/desert; water supply/desert/drought; employment/lack of jobs; natural resources/resource availability; inability to grow food/soil fertility/inadequate food supply; areas of dense vegetation/type of natural vegetation; etc.

Place specific reference is likely to consist of: named parts of the chosen country/locational detail, population data etc.

N.B.: Can be less than country size or a wider area e.g. Amazonia, Arctic, Sahel, Sahara, or an entire country such as Greenland. [7]

Page 4				Mark Scheme	Syllabus	Paper	
		<u> </u>		IGCSE – May/June 2014	0460	11	
2	(a)	(i)	14.5	– 15.5 kms		(1 mark)	[1]
		(ii)	Cam	lage where population is declining = meringham/Cherry Willingham/Hackthorn/Langto nfield/Stapleford/Thurlby	n-by-Wragby/S	campton /	
			The	village with the highest population growth = Sudbro	oke	$(2 \times 1 \text{ mark})$	[2]
		(111)	comi child peop prob movi retire scen bigg	s such as: munity spirit; /family friendly; ble want to get away from air pollution/less polluted lems of traffic congestion in Lincoln/less traffic; ing to an area where there is less noise/more peac ement; ic beauty; er gardens/more land; specified crime;			
			etc.			$(3 \times 1 \text{ mark})$	[3]
		(iv)	high more avail e.g. spec they supp seco may	s such as: er order services in Lincoln; e choice of services/comparison goods; ability of specialist goods/services/luxury goods; banks/department stores/hypermarket; (MAX 1); cialist shops; might not have those services in their villages/do port services; endary schools/hospitals/theatre; (max 1 on services work in Lincoln; aper products;		nold populatio	n to
			etc.	iper products,		$(4 \times 1 \text{ mark})$	[4]
	(b)	(i)	may extra pres grea loss will r cons	s such as: reduce property values in surrounding area; a traffic/traffic noise/danger/traffic congestion/air p sure on schools; sure on doctors; ter run off/more chance of flooding; of open space/woodland/parkland/loss of farmlan nake character of the area less rural; etruction problems; or pollution from sewage disposal;			
			N.B.	: List of effects should not just be lifted from extract.			

(3 × 1 mark) [3]

Page 5	Mark Scheme	Syllabus	Paper
	IGCSE – May/June 2014	0460	11

- (ii) Many old houses in need of replacing/redevelopment of slum housing; increase in divorce rates; so each partner needs a house (dev) increasing urban populations/urbanisation; people migrating there/moving into area; (dev); or people living longer (dev); greater affluence; decrease number of homeless people/reduces waiting lists for housing; increasing population growth/due to high birth rates or migration; etc. (5 × 1 mark or development) [5]
- (c) Levels marking

<u>Level 1</u> (1–3 marks) Statements including limited detail which describe attempts to reduce problems caused by traffic.

<u>Level 2</u> (4–6 marks) Uses named example.

More developed statements which describe attempts to reduce problems caused by traffic.

(N.B. Max 5 if no named example)

<u>Level 3</u> (7 marks) Uses named example. Can be MEDC or LEDC. Comprehensive and accurate statements including some place specific reference.

Content Guide: Answers are likely to refer to; pedestrianisation; road improvement/widening; ring roads; by-passes; public transport systems/trams/tube/guided bus routes; congestion charging; park & ride; number plate usage; lanes for car sharing; bus lanes; catalytic convertors/reduce air pollution; etc.

Place specific reference is likely to consist of: named parts of the urban area/street names/locational detail/road numbers, names of public transport schemes. etc.

N.B.: Development is of description of attempts not the impact of the attempt for example 'so there are less cars on the road' is IR. [7]

	Page 6		5	Mark Scheme	Syllabus	Paper	
				IGCSE – May/June 2014	0460	11	
3	(a)	(i)	1.6 t	o 1.8 km		(1 mark)	[1]
		(ii)		Oxbow lake			
			Y = 1	meander	(2	$2 \times 1 \text{ mark}$)	[2]
		(iii)	flood eros cost disru build	s such as: ding of track; ion of embankment/track; of maintenance; uption to services; I a bridge; s from river may be deposited and block the track;	(3	3 × 1 mark)	[3]
		(iv)	later depo displ flood carry slow depo	s such as: al erosion/or description; osition in channel/on bed of river; lacement of water; ding of river/overflows bank; ying large amount of sediment; moving/stationary water/friction; osition of sediment on flood plain/deposition of alluv d up of layers;	vium;		
			etc.		(4	4×1 mark)	[4]
	(b)	(i)	heav prolo snov satu defo builo dam	s such as: /y rainfall/storms; onged period of rainfall; v melting; rated ground/large amounts of impermeable surfac restation ling on flood plains/urbanisation; breaking;			
			etc.		(:	$3 \times 1 \text{ mark}$)	[3]
		(ii)	peop loss dam need peop close so p disru sewa wate such cost lead dam	s such as: ble trapped/forced to stay in houses; of life/drowning; age to housing; d to evacuate (dev); ble are homeless; ure/flooding of workplaces; eople cannot earn money (dev); uption to road transport/railways/bridges; age flows onto land/road/water; er borne disease; n as cholera/typhoid (dev); of repairs to damage; s to increase in insurance premiums (dev); age to possessions or examples e.g. car; off electricity/gas;			
			etc.		5×1 mark or de	velopment)	[5]
				·		-	-

Page 7	Mark Scheme	Syllabus	Paper
	IGCSE – May/June 2014	0460	11

(c) Levels marking

<u>Level 1</u> (1–3 marks) Statements including limited detail which explain why people live on flood plain/delta.

<u>Level 2</u> (4–6 marks) Uses named example. More developed statements which explain why people live on flood plain/delta. (N.B.: Max 5 if no named example)

<u>Level 3</u> (7 marks) Uses named example of a river. Comprehensive and accurate statements, including some place specific reference.

Content Guide: Answers are likely to refer to; fertile soils/high yields of crops; good grazing land; water from river for drinking/washing/in homes; irrigation; flat building land; transport along river; easy communications/roads/railways can be built along valley; power available from river/water mills/HEP; scenic beauty/make money from tourists; source of food/fishing; clay for building/making pots; etc.

Place specific reference is likely to consist of: locational details; named settlements along river etc.

[7]

4	(a) (i)	20°C	(1 mark)	[1]
	(ii)	A = Tropical desert B = Tropical rainforest	$(2 \times 1 \text{ mark})$	[2]
	(iii)	More cloud cover in rainforest		
		Higher humidity in rainforest		
		Lower temperatures at night in desert		
		N.B.: Comparative statements required. Must identify which area being discussed. Can have vice versa ideas.	(3 × 1 mark)	[3]

Page 8				M	ark Sch	eme			Syllab	ous	Paper	<u> </u>
				IGCSE	– May/J	June 2014	•		046	0	11	
tra ac of sc at as sc		ss larg lore wi does l ospher ir is de o cooli	s/wind ge area inds/b not picl ric pres escendi	as of lan lows fro k up any sure is ing; ndensat	om a des y moistu high;		as lost i	ts mois	sture;			
						vind direct			• •		for other ic	lea) [4
f I r i V	flesh low to need in pa white	o grou lles/sp itches	ms/lea und/sm piky/th /some	norny/na	ubs/sma arrow/th urfaces/		ipart/g	aps be	tween pla		xy leaves;	ſ
e	etc.									(3	× 1 mark)	[3
s s c v t t s s c	seed spells only t waxy temp tap ro tap ro so th some droug	s; flower / narro oeratur oots / l nat it ca e plant ght;	nts ren ow/spi res; ong roo an get ts/cact	⁺a short iky lea ots/wid water fr	t period o aves re le spreao rom a la water in	of time aft	er rain; es of search deep be	(dev); evapc for wa	otranspirat ter; ırface; (de	ion/be	during lon cause of	-
				tion (de								

etc.

 $(5 \times 1 \text{ mark or development})$ [5]

Page 9	Mark Scheme	Syllabus	Paper
	IGCSE – May/June 2014	0460	11

(c) Levels marking

Level 1 (1–3 marks)

Statements including limited detail which describe impacts of large scale deforestation on the local and/or global natural environment.

<u>Level 2</u> (4–6 marks) Uses named example.

More developed statements which describe impacts of large scale deforestation on the local and/or global natural environment. (NB Max 5 if no named example)

Level 3 (7 marks)

Uses named example.

Comprehensive and accurate statements, which describe impacts of large scale deforestation on the local **and** global natural environment, including some place specific reference.

Content Guide: Answers are likely to refer to; it destroys animals/plants; threatens species with extinction; impacts on food chain; loss of habitat; reduces interception; increases run off/ causes floods; sedimentation of rivers; carbon dioxide build up; (enhanced) global warming; rise in sea levels; coastal flooding etc.

place specific reference is likely to consist of: locational details; named species and locations within rainforest; other relevant locations (e.g. Antarctica, Maldives) etc.

N.B.: Must be development of impacts not causes.

[7]

[1]

[TOTAL: 25 marks]

5 (a) (i) 83.1 (1 mark)

 (ii) Biomass; Hydro electric power; Geothermal; Wind; Solar

(2 × 1 mark) [2]

Page 10)	Mark Scheme	Syllabus	Paper
		IGCSE – May/June 2014	0460	11
(iii)	exha fluct expe atter envii worr	s such as: austion of fossil fuels; uating fossil fuel prices/increasing cost of type ensive; npts to reduce reliance on imported fuels; ronmentally friendly/safer for environment or examp ies about global warming; ping running costs or examples;	oles;	fossil fuels are × 1 mark) [3]
(iv)	Adva	antages such as:		
	no a sma	production cost; ir pollution/greenhouse gases/global warming; Il amounts of raw materials/uranium required/will la time/produce large amount of energy from small a		n;
	Disa	dvantages such as:		
	worr stora	struction costs are high/decommissioning costs are ies over radiation/reactor meltdown/concerns over age/Disposal of waste is not easy; cannot be used after closure for many years;	-	ions;
	(N.B	. 2 marks for advantages/disadvantages)	(4	× 1 mark) [4
(b) (i)	abov clust more sout Nort on p	s such as: ve 200 metres/on a hilltop/high areas/contours of 2 ereed/close together; e on western side of hillside; h east of cross road/within 1 km of crossroads; h/West/North West of farms/within 1 km of farms/ lateau/gentle slopes; c of river/within 1km of river;		n farms;
	etc.		(3	× 1 mark) [3
(ii)	peop espe hote som birds cons	s such as: ble are upset by visual impact/can be seen for many ecially as many of these areas are scenic (dev); I owners may be worried about loss of tourism (dev) e people claim they are noisy; s flying into turbines/or other environmental/land is struction noise/dust/traffic; interrupt radio/TV signals;);	
	etc.		5×1 mark or dev	elopment) [5

Page 11	Mark Scheme	Syllabus	Paper
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(c) Levels marking

Level 1 (1–3 marks)

Statements including limited detail which describe problems for people of using wood and charcoal as sources of energy.

<u>Level 2</u> (4–6 marks) Uses named example.

More developed statements which describe problems for people of using wood and charcoal as sources of energy.

(N.B.: Max 5 if no named example)

<u>Level 3</u> (7 marks) Uses named example. Comprehensive and accurate statements, including some place specific reference.

Content Guide: Answers are likely to refer to; problems caused by smoke/Asthma/eyesight loss; difficulties of collecting wood; impacts on people of loss of vegetation e.g. soil erosion reduces crop production (must have link to people not just soil erosion); fire risk; desertification prevents crops gowing; etc.

Place specific reference is likely to consist of: Locational details; Named locations within area studied; Statistical details etc.

[7]

6	(a) ((i)	The production and distribution of goods and services	(1 mark)	[1]
	(i	ii)	C = Secondary D = Primary E = Tertiary		
			All 3 correct = 2 marks		
			2 correct = 1 mark		
			0/1 correct = 0 mark	(2 marks)	[2]

Page 12	Mark Scheme	Syllabus	Paper
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(iii) Ideas such as: lack of alternative employment/can't get another job/lack of jobs; lack of skills/education; cheap/quick to set up in business/quick way to earn cash; large number of customers; no taxes to be paid/no paperwork to be done; no need for premises;

can work for themselves;

can work from a very young age; etc.

 $[3\times 1 mark] \quad [3]$

(iv) Advantages such as:

speeds up production/works quicker/more efficient; reduces need for/cost of workers; enables larger area to be cultivated/more products to be produced; easy to operate/few skills required; etc.

Disadvantages such as;

Loss of employment; people have to learn how to use them; cost may be too high for them to afford/high costs of repairs; spare parts may not be easy to obtain/machines may break down; etc.

N.B.: 2 marks for advantages/disadvantages.

(4 × 1 mark) [4]

(b) (i) Ideas such as:

reduction in primary sector; increase in tertiary sector; (initial) increase in secondary sector/secondary sector levels off/eventual decrease; etc.

Alternative response to all of above for 1 mark is 'Low level of development is mainly primary and higher level of development is mainly tertiary.

N.B.: No need for statistics.

(3 × 1 mark) [3]

Page 13	Mark Scheme	Syllabus	Paper
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(ii) Ideas such as:

mechanization of jobs in primary/secondary sector; reduces need for workers (dev); some primary industries may close due to exhaustion of resources; growth of secondary sector as technology improves; countries want to manufacture their own goods rather than import; eventual decline of secondary due to automation/competition from abroad; where labour is cheaper (dev); rise in tertiary as education/skills levels increase: growth of secondary due to globalization/MNC's or TNC's locate there; growth of tourism; because a country has become more industrialized; closure of primary or secondary industries due to import of items (primary resources or secondary products); demand for services e.g. medical; $(5 \times 1 \text{ mark or development})$ etc. [5]

(c) Levels marking

<u>Level 1</u> (1–3 marks) Statements including limited detail which describe attractions or simple explanation.

<u>Level 2</u> (4–6 marks) Uses named example.

More developed statements which describe attractions and explain how they encouraged the growth of tourism.

(N.B. Max 5 if no named example)

Level 3 (7 marks)

Uses named example.

Comprehensive and accurate statements, which describe attractions and how they encouraged the growth of tourism, including some place specific reference.

Content Guide: Answers are likely to refer to: specified climatic attractions; specified scenic attractions; flora and fauna; religious buildings; historical buildings; purpose built tourist attractions (or examples); government investment or policy; etc.

Place specific reference is likely to consist of: locational details; named locations within area studied; statistical details etc.

(7)