CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the October/November 2013 series

0460 GEOGRAPHY

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0460/13

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.



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The features of the marking scheme

Each question carries 25 marks. Candidates cannot earn above the maximum marks available within each sub section.

The marking scheme attempts to give guidance about the requirements of each answer and lists a number of responses, which will earn marks along with the general principles to be applied when marking each question.

It should be noted that candidates can earn marks if their answers are phrased differently provided they convey the same meaning as those in the mark scheme. THE CANDIDATES DO NOT NEED TO USE THE SAME WORDING TO EARN MARKS.

The notation 'etc.' at the end of an answer in the mark scheme signifies that there may well be other correct responses or examples that can be given credit. Providing the statement is true, relevant to the question asked and not repetition of a previous point made credit should be given.

A point made within one sub-section which is an answer to the question set in a different sub-section should not be given credit as each sub-section asks different questions which require independent answers.

The mark scheme uses semi colons (;) to separate marks and diagonals to separate alternative answers.

Levels of response marking is used for section (c) of each question.

Thus it is the quality of the response that determines which level an answer is achieved rather than the quantity of statements contained within it. However, once assigned to a level the mark achieved within that level is determined by the number of points made.

Levels 1 and 2 are distinguished by whether statements are simple (level 1) or developed/elaborated (level 2). A candidate can immediately enter L2 by making developed points without making any L1 statements. In order to achieve L3 a candidate must have already reached the top end of L2 – in addition his/her answer should have a clear and appropriate example and if the answer is place specific as well (7 marks). Highlight place specific detail.

Where statements are assigned levels by the examiner this should be indicated by the use of L1, L2 and L3 next to the statements. A summary of the overall level and mark awarded should be written at the end of the answer. Ticks should **not** be used on answers that are marked using levels of response marking.

Summary:

Level 1 (1 to 3 marks): 1 simple statement (1 mark) 2 simple statements (2 marks) 3 simple statements (3 marks)

Level 2 (4 to 6 marks): 1 developed statement (4 marks) 2 developed statements (5 marks) 3 or more developed statements with e.g. (6 marks)

Level 3 (7 marks) 3 or more developed statements + named example with at least one piece of place specific detail.

	Page 3	3	Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2013	0460	13
1	(a) (i)		th rate is higher than birth rate/Birth rate is lower t birth rate is 9.2	han Death rate/D	eath rate is 9.8
		1 ma	ark		[1]
	(ii)		– 16.6 (1 mark) .5 (per 1000) (1 mark)		
		2@	1 mark		[2]
	(iii)	Sho Poo Lack Lack High Lack No p Poo San War	s such as: t life expectancy; r treatment of diseases/lack of medicines/lack of vac of health care facilities/hospitals/clinics; of investment in doctors/nurses; n levels of named example of disease e.g. Typhoid// of investment in care homes/services for elderly; bensions; r diet/food supply/starvation/malnutrition/hunger; r water supply; tation/hygiene/drought; /civil war; educated about disease/hygiene;		
		3@	1 mark		[3]
	(iv)	Sma Avai Kno Ema Wor High Abo The Late Low Avai	s such as: Ill family size; lability/people can afford contraception/family plann wledge of contraception/family planning; uncipation of women; nen are more career minded/busy with jobs; a cost of children; tion (availability of or legality of abortion) desire for material possessions; marriages; infant mortality rate/most children survive; lability of pensions; e children later in life (so have fewer of them);	ing;	
		NB:	reverse ideas for LEDC's are acceptable e.g. no ne	ed for children to	work on farm.

4 @ 1 mark

[4]

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(b) (i) Ideas such as MEDC pyramid is likely to:

have narrower base/less young people/less 0–4/less babies; be less pyramid shaped/more evenly spread across ages/more straight sided; have wider top/apex/larger top/more old people/large amount of grey; have wider middle section/bigger middle section/more working age; etc.

NB Could refer to MEDC or Zambia but account must be comparative.

3 @ 1 mark

[3]

(ii) Ideas such as:

High dependency ratio;

So people have to work harder to look after large

Families (dev)/so there are more children to support (dev)/costs more to look after children (dev);

Many children not educated/cost of providing education/cannot afford education/need more schools to be built (dev)lack of nursery places (dev);

Therefore literacy remains low/low skills levels or examples (dev);

Cost of providing food/cannot afford food/lack of food/need to provide more food;

Therefore starvation/malnutrition (dev);

Lack of/cost of/difficulty of providing water;

Stress or pressure on the working population;

Money has to be spent on their healthcare needs/can't afford to treat them;

If money spent on young the country can't afford to spend on other things or named examples;

Less chance of women being able to work;

Overcrowded housing;

Children abandoned/more street children/children involved in crimes or examples;

5 @ 1 mark or development

[5]

Pag	je 5	Mark Scheme		Syllabus	Paper
		IGCSE – October/November 2	2013	0460	13
	<u>Lev</u> Stat dep <u>Lev</u> Use Mor	els marking el <u>1</u> (1–3 marks) ements including limited detail describir endents. <u>el 2</u> (4–6 marks) s named example e developed statements describing policies	ng policies	to reduce num	bers of youn
	Level 3 (7 marks) Uses named example (e.g. China). Comprehensive and accurate statements describing policies to reduce numbers of yo dependents, including some place specific reference. Candidates could refer to ideas such as: Contraception Government incentives				
	etc. NB:	the question is asking for a description of th	e policy not	impacts of the po	licy. [7 [Total: 25
(a)	(i)	Areas where people live/areas of housing.			
		1 mark			[1
((ii)	A. Area B as there are more people living i HA compared with 4 per HA in A.	in 500 hecta	ares/same sized a	rea/B has 7 pe
		NB: must be comparative			
		B. Area A as redevelopment has taken plac	e or B is de	scribed as older	
		NB: no need for comparative			
		2 @ 1 mark			[2
(i	iii)	Ideas such as in area A there is: a greater percentage of professional/manag greater percentage of skilled manual worke			

a greater percentage of professional/managerial greater percentage of skilled manual workers; lower percentage of unskilled slightly more non-manual etc.

NB: Must be comparative

3 @ 1 mark

[3]

Page 6	5			Paper	
		IGCSE – October/November 2013	0460	13	
(iv)	Clos Well Chea Loca Clos	antages such as: e to/cheaper to get to/quicker to get to CBD for en served by public transport; ap housing; al shops/amenities; e knit communities rer to industrial areas for jobs;	nployment/shopping;		
	Cong Limit Nois Lack No g Air p	dvantages such as: gested roads; ted space/overcrowded houses; e from works/traffic; of off road parking/garages; jardens; ollution from traffic/factories; ses in need of repair or poor quality;			
	2 + 2	2 @ 1 mark		[4]	
(b) (i)					
	3@	1 mark		[3]	
(ii)	Som They And They e.g. It wil	s such as: le people may support it because: / will be able to use the cinema; not have to travel so far to use one (dev); / may gain business from people coming into the a local shops (dev); I be more attractive than a vacant property; / may get employment in the cinema etc.	area to use the cinen	na;	
	It wil Beca And So th It ma	e people may oppose it because: I create noise; ause more people are coming into the area (dev); extra traffic; nere may be delays/parking problems (dev); ay result in competition for other leisure providers i ie would prefer a different use e.g. school; r;	n the area;		
	NB:	Reserve one mark for support and one for oppose	ideas.		
	(5 @) 1 or development)		[5]	

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(c) Levels marking

Level 1 (1–3 marks)

Statements including limited detail describing the main changes in land use in the area surrounding the city.

Level 2 (4–6 marks)

Uses named example

More developed statements describing the main changes in land use in the area surrounding the city.

NB MAX 5 if no named example.

<u>Level 3</u> (7 marks) Uses named example (e.g. London). More developed statements describing the main land uses in the rural urban fringe, including some place specific reference.

Candidates may refer to ideas such as: Loss of farmland Building of leisure facilities Building of shops Building of factories/warehouses Transport developments

NB: Answers must relate to area surrounding the city not CBD or Inner city, however, some simple ideas may be generic e.g. new houses/shops/roads. [7]

[Total: 25]

3 (a) (i) An upland area/high area of land formed by the buckling/bending/moving up of the earth's crust/plates

	1 mark	[1]
(ii)	Nazca; South American	
	2 @ 1 mark	[2]
(iii)	Such as: Two continental plates meet/an oceanic and a continental plate; Same density plates; Layers of sediment/sedimentary rock accumulate; One plate won't subduct/give way; Crust/rocks get bent and crumpled/into a series of folds; Layers of crust/rock gets uplifted as a result, etc.	
	3 @ 1 mark	[3]

Page 8	Mark Scheme	Syllabus	Paper
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(b) (i) Ideas such as:

Idea from Fig 6:	Matched with any hazard for people selected from:
Pyroclastic flow	Kill/crush/injure/burn people
Volcanic bombs	Destroy/damage/burn buildings
Ash cloud	Destroy/damage/burn farmland
Lava	Disruption to transport
	Reduced visibility
	Poison from toxic fumes/suffocate/breathing difficulties/choke people

3 @ 1 mark

- (ii) Ideas such as:
 - Plates converge/push together; Subduction of one plate (oceanic); Greater density of oceanic plate; Friction/heating; Destruction of oceanic plate/turns to magma/melts; Build up of magma/pressure; Magma rises through lines of weakness; etc.

4 @ 1 mark

(iii) Ideas such as:

Soils are fertile/can be used for farming; So yields of crops are high (dev); They can generate electricity from the volcano; Using geothermal power (dev); The volcano attracts tourists; And they can get jobs as tour guides (dev); The volcano provides raw materials; Such as sulphur (dev) Scientists/geologists study volcano; etc.

5 @ 1 mark or development

[3]

[4]

		IGCSE – October/November 2013	0460	13
	1 ~			
(C)		vels marking		
		<u>rel 1</u> (1–3 marks) tements including limited detail describing impacts o	of an earthquake.	
		<u>vel 2</u> (4–6 marks) es named example		
	Mo	re developed statements describing impacts of an e	arthquake.	
	(NE	3 MAX 5 if no named example)		
		<u>vel 3</u> (7 marks)		
		es named example (e.g. Kobe). mprehensive and accurate statements including son	ne place specific refere	ence.
		ndidates may refer to impacts such as:		
	Los	ss of life		
		iries meless		
	Dar	mage to buildings		
	Dis	mage to infrastructure ruption of transport		
	etc.			[7]
				[Total: 25]
4 (a)	<i>(</i> i)	A wind which blows from the west/to the east		
4 (a)	(i)			
		1 mark		[1]
	(ii)	09.00 Cirrus		
		14.00 Cumulonimbus		
		2 @ 1 mark		[2]
	(iii)	Differences such as:		
		Afternoon is colder/morning is warmer; Morning has stronger wind speeds/wind speed dro	pped in afternoon;	
		Wind direction from west in morning north west in a Dry in morning but rain in afternoon;	afternoon;	
		Better visibility in morning;		
		Clear sky in morning but cloudy in afternoon; etc.		
		3 @ 1 mark		[3]
				[-]
(b)	(i)	Anemometer = wind speed /velocity		
		Wind vane = wind direction		
		Sunshine recorder = sunshine hours/amount of su	nshine	
		3 @ 1 mark		[3]

Mark Scheme

Syllabus

Paper

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(ii)	In th So r Abov As te So th In a To a On t	s such as e open/open space/away from trees and/or building eadings are not affected by shelter they provide (rea ve grass/not above concrete; emperatures above concrete will be artificially high (nat rain doesn't bounce off concrete into rain gauge fenced/walled compound; void tampering (reason); he roof of a building; vinds are not slowed down by obstructions;	ason); (reason);	
	4@	1 mark with 1 mark reserved for each of describe/e	explain	[4]
(iii)	Funi Attac Cylir 20 c Half The mea Che	s such as: nel; ched to a cylinder; nder fits inside a larger outside container; m in diameter/and 50 cm tall (dev); of it is buried in the ground; height of the water in the small graduated cylin suring cylinder; cked every 24 hours; er emptied;	nder is measured	d/poured into a
	NB:	Diagram not compulsory. No double credit for labeli	ing and text.	
	5@	1 mark or development		[5]
(c) Lev	vels m	arking		
		1–3 marks) nts including limited detail explaining chosen weathe	ering type.	
Sta	tes co	4–6 marks) prrect weathering type linking with explanation. veloped statements explaining chosen weathering ty	ype.	
NB	: MA>	5 if stated weathering type does not match explan	ation or no proces	s is stated.
Lev	<u>/el 3</u> (7 marks)		

States correct weathering type linking with explanation. Comprehensive and accurate statements with labelled diagram(s)

[7]

[Total: 25]

	Page 11		1	Mark Scheme	Syllabus	Paper			
				IGCSE – October/November 2013	0460	13			
5	(a)	(i)	Cart	oon dioxide, methane, ozone, nitrous oxide, water v	apour				
			1 ma	1 mark					
		(ii)		A. less heating needed (in winter); B. more HEP generated/increased forest productivity for wood to burn					
			2@	1 mark		[2]			
		(iii)	Exte Long More Floo	s such as: ension of agriculture into areas to north/higher latitud ger growing season; e drought/less water for crops to grow; ding of farmland; nging temperatures affects growth of crops;	des/nearer poles;				
			3@	1 mark		[3]			
		(iv)	Tem Melt Risir Coa Loss Extir Spec Impa Red Cha Natu Desc Incre etc.	s such as: perature patterns change/some increase some dec ing of ice cover/less icebergs/glaciers retreat; ng of sea levels; stal flooding; s of/changing habitats; nction of species; cies may migrate permanently; act on ecosystems/food chains; uction in food/water supply for wildlife; nging rainfall patterns/drought; ural vegetation dies/grows in areas it previously didr ertification/spread of deserts; eased strength of /frequency of tropical storms;		141			
			4@	1 mark		[4]			
	(b)	(i)	Gen Fron How	s such as: eral rise over the period/temperatures have increas n –3.3 to –2.2 (1.1) from (1906 to 2002)/–3.9 to –0.7 rever fluctuations/not constant;(NB: not just min/max 0.3 degrees in 1926, higher than –5.5 in 1956 (r e);	7 increase of –3.2; x temps)				
			3 @	1 mark		[3]			

	Page 12		Mark Scheme	Syllabus	Paper			
			IGCSE – October/November 2013	0460	13			
	(ii)	Gen By u Burr Air ti Defc Whie Ran Fact Incir etc.	as such as: eration of electricity; using fossil fuels/in coal fired power stations (dev); ning fuels/oils/petrol in vehicles/transport; ravel; prestation; ch prevents use of carbon dioxide by trees; ching/grazing of cattle (releases methane); tories burning coal; neration of waste; 1 mark or development		[5]			
	(c) Lev	/els m	narking					
		Level 1 (1–3 marks) Statements including limited detail describing causes of water pollution.						
	Use	es na	4–6 marks) med example veloped statements describing causes of water pol	lution.				
	NB	MAX	5 if no named example					
	Use	es na	7 marks) med example (e.g. North Sea). nensive and accurate statements including some pla	ace specific refere	nce.			
	Sev Ind Far Nue	Candidates may refer to causes such as: Sewage disposal Industrial effluent Farming activities Nuclear waste						
	Oil etc	spilla	ge		[7]			
					[Total: 25]			
6	(a) (i)	Wor etc.	k in hotel/waiter/taxi driver/tourist guide/selling sou	venirs/working for	tourist agency;			
		1 ma	ark		[1]			
	(ii)		ironmental cost = air/water pollution/destruction of n ironmental benefit = protection of natural environme		t			
		2@	1 mark		[2]			

Page 1	3	Mark Scheme	Syllabus	Paper		
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(iii)	Ideas such as: Tourists wear inappropriate clothing (or example); Or drink alcohol; Tourism can encourage use of drugs; Prostitution may take place in tourist areas; (must state any of above) may be insulting to culture/religion; Assaults/robberies/pick-pocketing/violence; etc.					
	3@	1 mark		[:		
(iv)	Fore gove Enal Deve Culte Rete Incre	s such as: ign exchange/increased economic grow ernment revenue; oling spending on education/hospitals or othe elopment of infrastructure (water, electricity, o elopment of transport or examples; ural exchange; ention of culture/traditions; eased market for local farmers; e business for local shops; y will build more facilities e.g. swimming pools	r examples; or other examples);			
	4@	1 mark		[
(b) (i)	Sand Trop Clea Tem State Mari Mou	s such as: dy beaches; ical/colourful vegetation/plants; r/clean/blue/calm seas/water; ples/religious sites/mosques/churches/catheo ues; nas/areas of boats/port/harbour/sailing; ntains; buildings/ancient buildings;	Irals;			
	3@	1 mark		[

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(ii) Ideas such as:

Lack of raw materials for investment in industry; And imports would be expensive (dev); Difficult to establish market for manufactured products; Large/increasing demand for tourism; Skills base is poor for development of manufacturing; As traditional employment has been in farming (dev); Weather/climate/landscape favours development of tourism/beautiful scenery already there: Therefore overseas investors are happy to invest in Tourism development; Many jobs in tourism are low skill/pay; Tourism is seen as less damaging to the environment than Manufacturing/to build factories is more damaging; Lack of technology; Lack of infrastructure e.g. roads/ports to transport goods in and out; etc.

NB: Reserve one mark for reference to each of tourism and manufacturing.

5 @ 1 mark or development

[5]

(c) Levels marking

Level 1 (1–3 marks)

Statements including limited detail describing what has been done to conserve the natural environment.

Level 2 (4–6 marks)

Uses named example.

More developed statements describing what has been done to conserve the natural environment.

NB: Max 5 if no named example.

Level 3 (7 marks) Uses named example (e.g. Menorca). Comprehensive and accurate statements describing what has been done to conserve the natural environment, including some place specific reference. Candidates may refer to ideas such as: National parks Restricting tourist numbers Conserving wildlife Education of tourist etc.

[7]

[Total: 25]