CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

# MARK SCHEME for the October/November 2013 series

# 0460 GEOGRAPHY

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.

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Ŭ		IGCSE – C	October/November 20	13	0460	13
(a) (i)		irth rate is 9.2	nan birth rate/Birth rate	e is lower th	an Death rate/D	Death rate is S
(ii)	44.1	– 16.6 (1 mark) 5 (per 1000) (1 m	ark)			
	2@	1 mark				
(iii)	Shor Poor Lack Lack High Lack No p Poor Poor Sani War/	of health care fac of investment in c levels of named e of investment in c ensions;	example of disease e.g care homes/services fo starvation/malnutrition/l ught;	. Typhoid/A r elderly;		
	3@	1 mark				
(iv)	Sma Avai Knov Ema Won High Abor The Late Low Avai	vledge of contrace ncipation of wome en are more care cost of children; tion (availability of desire for material marriages;	er minded/busy with jo f or legality of abortion) l possessions; te/most children survive s;	bs; e;	ng;	

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]

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		<u>J</u>		IGCSE – October/November 2013	0460	13		
	(c)	Lev	vels m	narking				
		<u>Level 1</u> (1–3 marks) Statements including limited detail describing policies to reduce numbers of youn dependents.						
		<u>Level 2</u> (4–6 marks) Uses named example More developed statements describing policies to reduce numbers of young dependents.						
		(NE	B: MA	X 5 marks if no named example)				
		Use Cor	es nai mpref	7 marks) med example (e.g. China). nensive and accurate statements describing polic nts, including some place specific reference.	ies to reduce nu	mbers of young		
	Candidates could refer to ideas such as: Contraception Government incentives Government sanctions etc.							
		NB	: the c	question is asking for a description of the policy not	impacts of the po	licy. [7]		
						[Total: 25]		
2	(a)	(i)	Area	as where people live/areas of housing.				
			1 ma	ark		[1]		
		(ii)		rea B as there are more people living in 500 hecta compared with 4 per HA in A.	ares/same sized a	area/B has 7 per		
			NB:	must be comparative				
			В. А	rea A as redevelopment has taken place or B is de	scribed as older			
			NB:	no need for comparative				
			2@	1 mark		[2]		
		(iii)	a gre grea lowe	s such as in area A there is: eater percentage of professional/managerial; ter percentage of skilled manual workers; er percentage of unskilled itly more non-manual				
			NB:	Must be comparative				
			3@	1 mark		[3]		

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(iv)	Clos Well Che Loca Clos	antages such as: se to/cheaper to get to/quicker to get to CBD for em l served by public transport; ap housing; al shops/amenities; se knit communities rer to industrial areas for jobs;	າployment/shoppinູ	];
	Con Limi Nois Lack No g Air p	advantages such as: gested roads; ted space/overcrowded houses; se from works/traffic; < of off road parking/garages; gardens; pollution 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	is such as: ne people may support it because: y will be able to use the cinema; not have to travel so far to use one (dev); y may gain business from people coming into the a local shops (dev); Il be more attractive than a vacant property; y may get employment in the cinema etc.	rea to use the cine	ma;
	It wil Beca And So the It ma	ne people may oppose it because: Il create noise; ause more people are coming into the area (dev); extra traffic; here may be delays/parking problems (dev); ay result in competition for other leisure providers in ne 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]

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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]

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#### (c) Levels marking

<u>Level 1</u> (1–3 marks) Statements including limited detail describing impacts of an earthquake.

<u>Level 2</u> (4–6 marks) Uses named example More developed statements describing impacts of an earthquake.

(NB MAX 5 if no named example)

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

Candidates may refer to impacts such as: Loss of life Injuries Homeless Damage to buildings Damage to infrastructure Disruption of transport etc.

[Total: 25]

[7]

4	(a) (i)	A wind which blows <b>from</b> the west/to the east	
		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 dropped in afternoon; Wind direction from west in morning north west in afternoon; Dry in morning but rain in afternoon; Better visibility in morning; Clear sky in morning but cloudy in afternoon; etc.	
		3 @ 1 mark	[3]
	(b) (i)	Anemometer = wind <b>speed/</b> velocity	
		Wind vane = wind <b>direction</b>	
		Sunshine recorder = sunshine <b>hours</b> /amount of sunshine	
		3 @ 1 mark	[3]

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	In the So re Abov As te So the In a To a On the	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	
	Funr Attac Cylir 20 cl Half The mea Cheo	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	
	NB:	Diagram not compulsory. No double credit for label	ing and text.		
:	5@	1 mark or development		[:	
(c) Leve	els m	arking			
		1–3 marks) nts including limited detail explaining chosen weath	ering type.		
State	es co	4–6 marks) prrect weathering type linking with explanation. veloped statements explaining chosen weathering t	ype.		
NB:	МΑУ	5 if stated weathering type does not match explan	ation or no proces	ss is stated.	
		7 marks) prrect weathering type linking with explanation.			

Comprehensive and accurate statements with labelled diagram(s)

[7]

[Total: 25]

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5	(a) (i)	) Ca	rbon dioxide, methane, ozone, nitrous oxide, water	vapour			
		1 r	nark		[1]		
	(ii)	•	less heating needed (in winter); more HEP generated/increased forest productivity f	or wood to burn			
		2 (	2) 1 mark		[2]		
	(iii)	Ex Lo Mo Flo	as such as: tension of agriculture into areas to north/higher latitunger growing season; are drought/less water for crops to grow; anding of farmland; anging temperatures affects growth of crops;	udes/nearer poles;			
		3 (	2) 1 mark		[3]		
	(iv)	Te Me Ris Co Lo Ex Sp Im Re Ch De	as such as: mperature patterns change/some increase some de ling of ice cover/less icebergs/glaciers retreat; sing of sea levels; astal flooding; ss of/changing habitats; tinction of species; ecies may migrate permanently; bact on ecosystems/food chains; duction in food/water supply for wildlife; anging rainfall patterns/drought; tural vegetation dies/grows in areas it previously dic sertification/spread of deserts; reased strength of /frequency of tropical storms;				
		4 (	2) 1 mark		[4]		
	(b) (i)	Ge Fro Ho e.g	eas such as: neral rise over the period/temperatures have increa om –3.3 to –2.2 (1.1) from (1906 to 2002)/–3.9 to –0 wever fluctuations/not constant;(NB: not just min/ma ). 0.3 degrees in 1926, higher than –5.5 in 1956 ( re);	.7 increase of –3.2; ax temps)	s and statistics		
		3 (	1 mark		[3]		

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P	Page 1	2		Mark Sc				Syllabus	Paper
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	(ii)	Gene By us Burn Air tr Defo Whic Ranc Facto Incin etc.	s such as: eration of elect sing fossil fuel- ing fuels/oils/p avel; restation; th prevents use ching/grazing of pries burning of eration of was 1 mark or deve	s/in coal fire petrol in vehic e of carbon o of cattle (rele coal; te;	cles/trans dioxide by	port; / trees;	v);		[5]
									[0]
(0	<b>c)</b> Lev	vels m	arking						
			1–3 marks) nts including lir	mited detail o	describinç	g causes of	water po	ollution.	
	Lev	vel 2 (4	1–6 marks)						
	Us	es nar	ned example eloped statem	nents describ	oing cause	es of water	pollutio	n.	
	NB	B MAX	5 if no named	example					
	Us	es nar	7 marks) ned example ( ensive and ac	-	,	luding some	e place s	specific refere	ence.
	Se	wage	es may refer to disposal	o causes su	ch as:				
			effluent activities						
	Nu	iclear v	vaste						
	Oil etc	spillaç	je						[7]
									[Total: 25]
6 (a	a) (i)	Work etc.	in hotel/waite	er/taxi driver/	/tourist gu	uide/selling	souveni	rs/working fo	r tourist agency;
		1 ma	rk						[1]
	(ii)		onmental cost onmental ben		•			al environme	nt
		2@	1 mark						[2]

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(iii)	Tour Or d Tour Pros (mus	as such as: rists wear inappropriate clothing (or example); Irink alcohol; rism can encourage use of drugs; stitution may take place in tourist areas; st state any of above) may be insulting to culture/re aults/robberies/pick-pocketing/violence;	ligion;	
	3@	1 mark		
(iv)	Fore gove Enal Deve Culte Rete Incre	as such as: eign exchange/increased economic growth/mo ernment revenue; bling spending on education/hospitals or other exar elopment of infrastructure (water, electricity, or othe 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 that l	nples; er examples);	nto area/mo
	4@	1 mark		
(b) (i)	Sano Trop Clea Tem State Mari	as such as: dy beaches; bical/colourful vegetation/plants; ar/clean/blue/calm seas/water; nples/religious sites/mosques/churches/cathedrals; ues; inas/areas of boats/port/harbour/sailing; untains;		

3 @ 1 mark

[3]

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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]