

Cambridge International Examinations Cambridge International General Certificate of Secondary Education

GEOGRAPHY

0460/11 May/June 2016

Paper 1 MARK SCHEME Maximum Mark: 75

Published

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CAMBRIDGE International Examinations

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	Cambridge IGCSE – May/June 2016	0460	11
(a) (i)	South America Europe Asia		[1
(ii)	USA 31 110		[2
(iii)	 lack of qualifications/skills/education/no experience; some cannot speak the language; some are doing low paid jobs; some are unable to obtain employment/not enough jobs; difficulty affording housing/have to live in squatter settlements, live; some may have to live away from their families; discrimination may occur; exploitation by employers/long hours; hard to fit in with culture/differences in culture/laws (or example religious persecution/nowhere to worship; 	e – food, etc	5.)
	lack of documentation, etc.	(3 × 1 r	nark) [3
(iv)	 Ideas such as: enlarges labour force/helps to exploit resources; provides cheap labour; people will do jobs locals will not do/dirty jobs; skilled labour (or example – doctors/engineers); cultural exchange/multi-cultural society; specific services set up (or example – restaurant, etc.); raises more tax revenue; larger market for businesses/more sales; helps country to develop/improves economy; employment/revenue for country created by new businesses, 	etc. (4 × 1 r	nark) [4
(b) (i)	Emigration from USA to Mexico increases after 1995 to 2000 but e to USA decreases by 2005–2010;	emigration fr	om Mexico
	1995–2000 more emigration from Mexico to USA than immigration 2005–2010 more emigration from USA to Mexico than immigration bet	from Mexic	o to

2005–2010 more emigration from USA to Mexico than immigration from Mexico to USA/roughly the same amounts of immigration and emigration between Mexico and USA;

3rd mark for supporting stats:1995–2000 to USA 2.9 million, to Mexico 0.68 millionOR2005–2010 to USA 1.3 million to Mexico 1.4 million(3 × 1 mark)[3]

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- (ii) Ideas such as:
 - employment;
 - high wages;
 - good quality/sufficient education/schools/universities/children`s literacy improved/better qualifications, etc.;
 - good quality health care/doctors/medicines;
 - good quality housing;
 - with amenities such as electricity/piped water;
 - bright lights/entertainments;
 - adequate supplies of food;
 - good water supply/sanitation;
 - family/friends live there;
 - no wars/peace/political stability, etc.

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

(c) Levels marking

<u>Level 1</u> (1–3 marks) Statements including limited detail which describe and/or explain the problems caused by under-population.

Level 2 (4–6 marks)

Uses named example.

More developed statements which describe and/or explain the problems caused by underpopulation.

NB Max 5 if no named or inappropriate 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:

- shortage of workers
- low level of production
- resources under-used
- high taxes
- lack of government income
- small market for goods and services
- low value of exports, etc.

Place specific reference is likely to consist of:

Named parts of the chosen country/locational detail, population data, etc.

[7]

Page 4 Mark Scheme Syllabus Paper Cambridge IGCSE – May/June 2016 0460 11 2 (a) (i) Coastal location/sheltered water/on an estuary/near the sea, etc. [1] (ii) • Q is located where deep water is available/P near shallow water; P has large areas of mud (at low water)/Q does not have mud; It is difficult for ships to reach P/it is easy for ships to reach Q/P is a long way from • open sea; ships are now much larger, etc. $(2 \times 1 \text{ mark})$ [2] (iii) Ideas such as: S has a large beach(or spit)/R does not have a large beach; • S is accessible by rail/R is not on the railway line; A main road serves S/only a minor road goes to R/S is more accessible/easier to get • to: S has more amounts of flat land/R has steep land, etc. **NB:** Assume the answers relates to S unless otherwise stated. $(3 \times 1 \text{ mark})$ [3] (iv) Ideas such as: imports/exports/close to port; railway line/roads/easy distribution of products/access raw materials; can process fish caught locally; flat land for building factories; water supply for industry, etc. One mark for simple reason (e.g. it is near a port) Second mark for explaining the reason (e.g. it is near a port so raw materials can be imported) (4 marks 2 + 2 Dev) [4] Both are a similar size/small/both approx. 40000 sq metres (35000 to 45000); (b) (i) • Ghajn Tuffieha is longer/linear but Fomm ir-Rih is nucleated; Ghajn Tuffieha is 400 metres long/from west to east and Fomm ir-Rih is 200 metres long/from west to east, etc. $(3 \times 1 \text{ mark})$ [3] (ii) Ideas such as; relief/flat, low land – is better for construction; a site close to a wet point/water source/stream/spring/river – provided fresh water; fertile land was required – for producing food; valley sites - were sheltered from the elements; hill tops – were sometimes chosen as defensive sites; bridging points/fords - enabled rivers to be crossed; dry point - avoided flooding;

- near woodland for hunting/building materials;
- near roads for access;
- aspect/south facing (in N hemisphere) to get more sunshine;
- avoid marshes so buildings are stable, etc. $(5 \times 1 \text{ mark for development})$ [5]

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Page 5	Mark Scheme	Syllabus	Paper
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<u>Level 1</u> (1–3 marks) Statements including limited detail which describe and/or explain the service provision.

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

More developed statements which describe and/or explain the service provision.

NB MAX 5 if no named or inappropriate example

Level 3 (7 marks)

Uses named example.

Comprehensive and accurate statements including both description and explanation, with some place specific reference.

Content Guide:

- Answers are likely to refer to;
- Types of services,
- Order of services,
- Size of settlement/population,
- Sphere of influence,
- Threshold population,
- Accessibility,
- Function of settlement, etc.

Place specific reference is likely to consist of:

- Locational details,
- Population statistics,
- Details of transport/communication network,
- Named shops and services, etc.

NB The example can be a named settlement of any size.

[7]

Ρ	age 6	Mark Scheme	Syllabus	Pape	er
	-	Cambridge IGCSE – May/June 2016	0460	11	
3	(a) (i	The magnitude of an earthquake			[1]
	.,				
	(ii) On Fig. 5			[2]
	(iii	Ideas such as:			
		uneven distribution;			
		clustered/in groups;			
		• in western part of the country;			
		 on/close to boundaries (with Russia/China/Kazakhstan); mainly between 27 and 105 degrees East (anywhere within re- 	nac) oto		
		 mainly between 87 and 105 degrees East (anywhere within ra 	$(3 \times 1 \text{ mark})$) [3]	
) [9]	
	(1)				
	(17	 Ideas such as: location is close to a (destructive)plate boundary/subduction z 	000.		
		 plates move or slide towards each other/one goes under the o 			
		 friction/plates get locked together/plates stick; 	uior,		
		 build-up of pressure or tension or energy; 			
		• pressure or tension released/sudden jolt;			
		creates seismic waves/vibrations, etc.	(4 × 1 n	nark)	[4]
	(b) (i	 Focus= where the earthquake occurred/started/rocks fractured the earthquake 	origin of the	•	
		Epicentre = the point on the surface directly above the focus/where	e the earthou	Jake	
		occurs.			
		Seismic waves= a wave/vibration which travels within the earth/thr	-		101
			(3 × 1 n	nark)	[3]
	(i) Ideas such as:			
		death/injury;			
		 destruction/damage to homes; 			
		 damage to possessions/cars; 			
		 damage to roads/railways/bridges; 			
		 loss of electricity/gas/telephone lines/communications; 			
		loss/contamination of water supplies; firee:			
		fires;disruption to businesses/workplaces;			
		 disruption to businesses/workplaces, economic collapse; 			
		 loss of jobs; 			
		 food shortages/death of livestock; 			

- food shortages/death of livestock; government buildings destroyed; •
- damage to specific other buildings e.g. churches/school/hospital/shops/historical • buildings/monuments; $(5 \times 1 \text{ mark for development})$ [5]

Page 7	Mark Scheme	Syllabus	Paper
	Cambridge IGCSE – May/June 2016	0460	11

<u>Level 1</u> (1–3 marks) Statements including limited detail which describe opportunities provided by volcanoes.

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

More developed statements which describe opportunities provided by volcanoes.

NB Max 5 if no named or inappropriate example

Level 3 (7 marks)

Uses named example.

Comprehensive and accurate statements including some place specific reference.

Content Guide:

- Answers are likely to refer to:
- Tourism/scenic beauty,
- mining/mineral exploitation,
- building materials,
- fertile soils/agriculture,
- geothermal power
- cultural/religious significance, etc.

Place specific reference is likely to consist of:

- Locational details,
- Details of named parts of the area,
- Named examples of power stations/tourist resort, etc.

[7]

		Mark Scheme	Syllabus	Pape	
		Cambridge IGCSE – May/June 2016	0460	11	
(a) (i)	Amazon (B	Basin)/Congo Basin//Kalimantan, etc.			[1]
(ii)		legrees north and south; South America and South East Asia (at least 2 needed	d), etc.	[2]	
(iii)	Describe	Hot and wet/high rainfall and temperature; high temperature through the year/no seasons; average around 30 °C; 2000 mm of rain or more; High rainfall all year/each day hot followed by heavy High humidity/humid, etc.	/ rainfall; (3 × 1 n	nark)	[3
	Explain	Overhead sun/high angle of sun/direct sunlight/sun's Low atmospheric pressure; Rising air; Large amount of evaporation; Large amount of transpiration; Large amounts of condensation; Build-up of cumulus clouds; Saturation/convectional rainfall	s rays are conc (4 × 1 n		ed; [4
(b) (i)	 micro- less e soil is plants 	ich as: ter destroyed as trees are burnt; organisms are destroyed so less plants grow; vapotranspiration so there is less rainfall; eroded/leached so plants do not grow well/soils beco do not grow when there is less rain; f shade so leaching and erosion occurs, etc.	ome infertile;		
	NB No ma	rks for a straight copy of labels without linking ideas t	together. (3 \times 1 n	nark)	[3
(ii)	 trees a product carbor increa meltine rising floodir loss of extinct 	e of carbon dioxide (as a result of burning); are no longer available to convert carbon dioxide to o		gen is	

Page 9	Mark Scheme	Syllabus	Paper
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<u>Level 1</u> (1–3 marks) Statements including limited detail which explain why the desert climate is hot and/or dry.

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

More developed statements which explain why the desert climate is hot and/or dry.

NB Max 5 if no named or inappropriate example

Level 3 (7 marks)

Uses named example.

Comprehensive and accurate statements, which explain why the desert climate is hot and dry, including some place specific reference.

Content Guide:

- Answers are likely to refer to:
- Air pressure,
- Descending air,
- Hadley Cell,
- Wind direction,
- Angle of sun,
- Rain shadow effect,
- Cold ocean currents, etc.

Place specific reference is likely to consist of:

- Locational details;
- Details of amounts of precipitation/temperatures,
- Named winds,
- Names of locations within the desert, etc.

[7]

Pa	ge 1	0	Mark Scheme	Syllabus	Paper
14	ge i		Cambridge IGCSE – May/June 2016	0460	11
5	(a)	(i)	El Salvador		[1]
		(ii)	Countries with higher GNP per capita have a higher percentage with	th access to	clean
			water/positive relation;		
			comparative statistics for two countries to illustrate relationship.	(2 × 1 n	nark) [2]
	((iii)	Methods such as:		
			Wells/water pumps;		
			Rivers/streams/lakes;		
			 piped water; 		
			dams/reservoirs;		
			 collecting rainwater in storage tanks/from roofs; 	<i>i</i> - <i>i</i>	
			• purchase of water from tankers/bottled water, etc.	(3 × 1 n	nark) [3]
	((iv)	Ideas such as:		
			 reduction of water borne disease/diarrhoea; 		
			• such as typhoid/cholera, etc.;		
			less dehydration/water is needed for life/without water people	die;	
			water required for cooking of food;		
			so less malnutrition;		
			less need to carry water for large distances;		
			 less time wasted so people can grow more crops; better constation/burgione; 		
			 better sanitation/hygiene; irrigation of crops/water for livestock, etc. 	$(4 \times 1 n$	oork) [/
			Irrigation of crops/water for livestock, etc.	(4 × 1 n	nark) [4]
	(b)	(i)	Ideas such as:		
	. ,	• •	Large/long/wide/big;		
			• very high;		
			 built of concrete/stone/rock; 		
			large reservoir behind it;		
			 road along dam; 		
			 power station at base of dam/electricity produced there; 		
			 in a rural/mountainous area, etc. 	(3 × 1 n	nark) [3]
		(ii)	Ideas such as:		
			• the project will create employment (during the construction ph	ase);	
			 water supply for industry; 		
			 which will create multiplier effect; 		
			 generation of HEP/electricity; 		
			• will encourage economic growth/development/increase GDP;		
			 tourists will be attracted to the dam/reservoir; 		
			 water will be available for local farmers; 		
			 increased yields of crops; 		
			 commercial production of crops/exports will increase; 		
			 reduce costs of/damage caused by floods; 		
			sustainable supply of water;		
			• can sell water internationally, etc. $(5 \times 1 \text{ mark})$	for developn	nent) [5

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Level 1 (1–3 marks)

Statements including limited detail which explain how the threats to the natural environment are being managed.

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

More developed statements which explain how the threats to the natural environment are being managed.

NB Max 5 if no named or inappropriate example

Level 3 (7 marks)

Uses named example.

Comprehensive and accurate statements, which explain how the risks to the natural environment are being managed, including some place specific reference.

Content Guide:

- Answers could refer to any economic activity but are likely to refer to;
- Manufacturing industry
- Tourism,
- Mining or quarrying,
- Agriculture,
- Generation of electricity,
- transport, etc.

Management strategies will depend on the activity being considered but may include:

- Legislation,
- Planning controls,
- National Park status, etc.

Place specific reference is likely to consist of:

- Locational details;
- Specific details of economic activity or management strategies,
- Named settlements, etc.

[7]

	12	Mark Scheme	Syllabus	Pape	r
		Cambridge IGCSE – May/June 2016	0460	11	
(a)	(i)	Jobs/things which are done on a farm to convert inputs to outputs; turning inputs on a farm into outputs; actions needed to get an output from a farm			[1]
	(ii)	Arable – wheat/sugar beet Pastoral – meat/milk/wool			
		NB Crops and animal products = 1	(2 × 1 n	nark)	[2]
	(iii)	Ideas such as:			
	. ,	 variety of items to sell/different types of products to sell; if one product does not do well the farmer has others to fall ba 	ick on;		
		 easier to adapt to market changes; 			
		 manure from animals can be used to fertilise crops; crop waste can be used to feed animals; 			
		 the farmer has work throughout the year, etc. 	(3 × 1 n	nark)	[3
			,	,	•
	(iv)	Ideas such as:			
		 crops are usually grown on flat/low land; as it is easier to mechanise; 			
		 soils are likely to be more fertile; 			
		• steep slopes are used for grazing sheep/pastoral farming;			
		• thin soils/rough grassland on steep slopes would result in pool	r yields from	crops;	
		sheep are hardy and can withstand cold temperature on mour			
		 south facing slopes (in northern hemispherevice versa in so supphing) 	uthern) rece	ive mor	e
		 sunshine; and are useful for growing vines; 			
		 and are useful for growing vines; 			
		• and are useful for growing vines;			[4
		and are useful for growing vines;sloping land more be better drained than flat land;	erlogging, etc (4 × 1 n		[4
(b)	(i)	 and are useful for growing vines; sloping land more be better drained than flat land; so may be used for crops/livestock which will not tolerate wate 			[4
(b)	(i)	 and are useful for growing vines; sloping land more be better drained than flat land; so may be used for crops/livestock which will not tolerate wate Ideas such as: More scrub and desert to the west; 			[4
(b)	(i)	 and are useful for growing vines; sloping land more be better drained than flat land; so may be used for crops/livestock which will not tolerate wate Ideas such as: More scrub and desert to the west; More rice growing to the east; 			[4
(b)	(i)	 and are useful for growing vines; sloping land more be better drained than flat land; so may be used for crops/livestock which will not tolerate wate Ideas such as: More scrub and desert to the west; More rice growing to the east; More wheat grown to the east; 			[4
(b)	(i)	 and are useful for growing vines; sloping land more be better drained than flat land; so may be used for crops/livestock which will not tolerate wate Ideas such as: More scrub and desert to the west; More rice growing to the east; More wheat grown to the east; All cotton to the east none to west; 	(4 × 1 n		[4
(b)	(i)	 and are useful for growing vines; sloping land more be better drained than flat land; so may be used for crops/livestock which will not tolerate wate Ideas such as: More scrub and desert to the west; More rice growing to the east; More wheat grown to the east; 	(4 × 1 n		[4
(b)	(i)	 and are useful for growing vines; sloping land more be better drained than flat land; so may be used for crops/livestock which will not tolerate wate Ideas such as: More scrub and desert to the west; More rice growing to the east; More wheat grown to the east; All cotton to the east none to west; More crops grown to east (only allow if no marks given for specific section) 	(4 × 1 n	nark)	-
(b)	(i)	 and are useful for growing vines; sloping land more be better drained than flat land; so may be used for crops/livestock which will not tolerate wate Ideas such as: More scrub and desert to the west; More rice growing to the east; More wheat grown to the east; All cotton to the east none to west; More crops grown to east (only allow if no marks given for spet) More forest to the west but wheat is grown to the east (or set) 	(4 × 1 n	nark) arison to	-
(b)		 and are useful for growing vines; sloping land more be better drained than flat land; so may be used for crops/livestock which will not tolerate wate Ideas such as: More scrub and desert to the west; More rice growing to the east; More wheat grown to the east; All cotton to the east none to west; More crops grown to east (only allow if no marks given for spet) More forest to the west but wheat is grown to the east (or s MAX 1) 	ecific crops) imilar compa	nark) arison to	5

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Level 1 (1–3 marks)

Statements including limited detail which describe the effects of food shortages on the people who live there.

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

More developed statements which describe the effects of food shortages on the people who live there.

NB Max 5 if no named or inappropriate 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:
- malnutrition/starvation,
- migration,
- weakness/inability to work,
- reduction of future output,
- cycle of poverty,
- dependence on aid supplies, etc.

Place specific reference is likely to consist of:

- Locational details;
- Specific details of settlements/areas affected,
- Named groups/tribes living in the area, etc.

[7]