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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.

		2	
Page 2	Mark Scheme	Syllabus	S. V
	IGCSE – October/November 2013	0460	Sp3

The features of the marking scheme

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

cambridge.com 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 guantity 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.

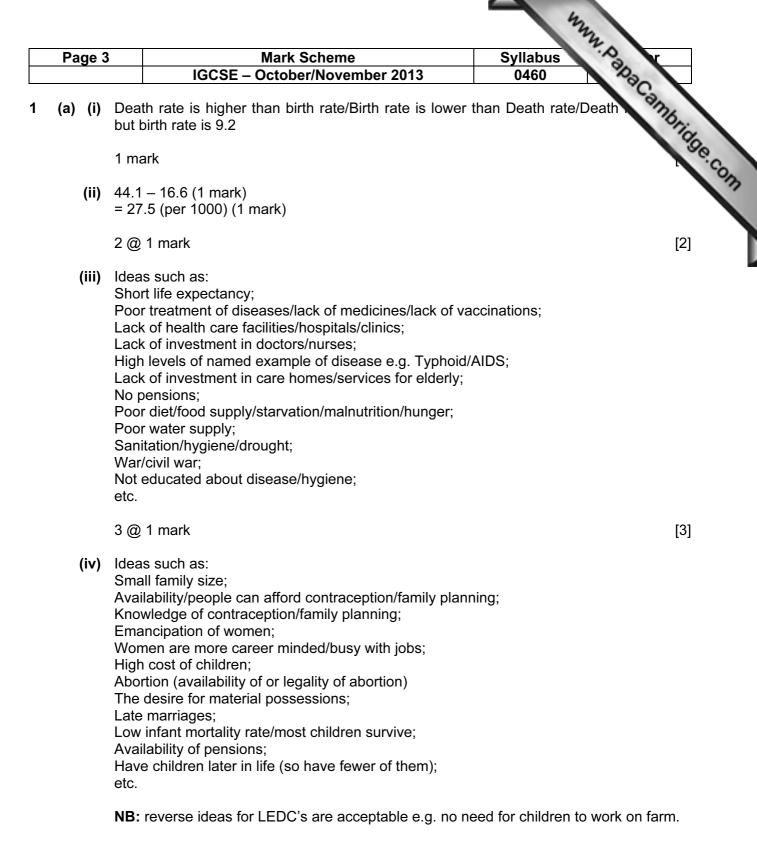
Where statements are assigned levels by the examiner this should be indicated by the use of L1, L2 and L3 next to the statements. A summary of the overall level and mark awarded should be written at the end of the answer. Ticks should **not** be used on answers that are marked using levels of response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



4 @ 1 mark

[4]

	Mark Scheme	Syllabus
	IGCSE – October/November 2013	0460 23
b) (i)	Ideas such as MEDC pyramid is likely to: have narrower base/less young people/less 0–4/less be less pyramid shaped/more evenly spread across a have wider top/apex/larger top/more old people/large have wider middle section/bigger middle section/more etc.	ges/more straight sided; amount of grey;
	NB Could refer to MEDC or Zambia but account must	be comparative.
	3 @ 1 mark	
(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 supp children (dev); Many children not educated/cost of providing educ more schools to be built (dev)lack of nursery places (or Therefore literacy remains low/low skills levels or exa Cost of providing food/cannot afford food/lack of 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 If money spent on young the country can't afford to examples; Less chance of women being able to work; Overcrowded housing; Children abandoned/more street children/children inve	ation/cannot afford education/ne dev); mples (dev); /need to provide more food; 't afford to treat them; o spend on other things or nam

5 @ 1 mark or development

[5]

Page	e 5	Mark Scheme Syllabus	r
		IGCSE – October/November 2013 0460	
(c) L	evel	Is marking	no.
S	State	Mark Scheme Syllabus IGCSE – October/November 2013 0460 Is marking 11 (1–3 marks) ments including limited detail describing policies to reduce numbers of y ndents. 12 (4–6 marks)	/out
U	Jses	<u>l 2</u> (4–6 marks) named example developed statements describing policies to reduce numbers of young dependents	
1)	NB: I	MAX 5 marks if no named example)	
U C	Jses Comp	<u>I 3</u> (7 marks) named example (e.g. China). prehensive and accurate statements describing policies to reduce numbers of y ndents, including some place specific reference.	/ounç
	Contr Gove	lidates could refer to ideas such as: raception ernment incentives ernment sanctions	
N	IB: tl	he question is asking for a description of the policy not impacts of the policy.	[7]
		[Tota	l: 25
(a) (i	i) A	-	l: 25
(a) (i	-	Areas where people live/areas of housing.	
	1 i) A	-	[1
	1 i) A	Areas where people live/areas of housing. I mark A. Area B as there are more people living in 500 hectares/same sized area/B has	[1
	1 i) A F	Areas where people live/areas of housing. I mark A. Area B as there are more people living in 500 hectares/same sized area/B has HA compared with 4 per HA in A.	[1]
	1 i) A F N E	Areas where people live/areas of housing. I mark A. Area B as there are more people living in 500 hectares/same sized area/B has HA compared with 4 per HA in A. NB: must be comparative	[1]
	1 i) A F R	Areas where people live/areas of housing. I mark A. Area B as there are more people living in 500 hectares/same sized area/B has IA compared with 4 per HA in A. NB: must be comparative B. Area A as redevelopment has taken place or B is described as older	[1 7 pe
(ii	i) A F N E N 2 i) I a g la s	Areas where people live/areas of housing. I mark A. Area B as there are more people living in 500 hectares/same sized area/B has HA compared with 4 per HA in A. NB: must be comparative B. Area A as redevelopment has taken place or B is described as older NB: no need for comparative	[1 7 pe
(ii	i) A F N E N 2 i) Id s e	Areas where people live/areas of housing. I mark A. Area B as there are more people living in 500 hectares/same sized area/B has HA compared with 4 per HA in A. NB: must be comparative 3. Area A as redevelopment has taken place or B is described as older NB: no need for comparative 2 @ 1 mark deas such as in area A there is: a greater percentage of professional/managerial; greater percentage of skilled manual workers; ower percentage of unskilled slightly more non-manual	[1]

Page 6	Mark Scheme	Syllabus	AC
	IGCSE – October/November 2013	0460	
(is) (Advantages such as:	Syllabus 0460 byment/shopping;	2
• •	Close to/cheaper to get to/quicker to get to CBD for employ	wment/shonning	non:
	Vell served by public transport;	ymeniosiopping,	19
	Cheap housing;		
L	ocal shops/amenities;		
С	Close knit communities		
	learer to industrial areas for jobs;		
e	etc.		
	Disadvantages such as:		
	Congested roads;		
	imited space/overcrowded houses;		
	loise from works/traffic;		
	.ack of off road parking/garages; lo gardens;		
	Air pollution from traffic/factories;		
	louses in need of repair or poor quality;		
	etc.		
2	2 + 2 @ 1 mark		[4]
	and use types such as:		
	Commercial;		
	Civic;		
U	Office		
3	3 @ 1 mark		[3]
· · /	deas such as:		
	Some people may support it because:		
	They will be able to use the cinema;		
	And not have to travel so far to use one (dev); They may gain business from people coming into the area	to use the cinema:	
	e.g. local shops (dev);		
	t will be more attractive than a vacant property;		
	hey may get employment in the cinema etc.		
S	Some people may oppose it because:		
lt	t will create noise;		
	Because more people are coming into the area (dev);		
	And extra traffic;		
	So there may be delays/parking problems (dev);		
	t may result in competition for other leisure providers in the	e area;	
	Some would prefer a different use e.g. school; .itter;		
	itter,		
0			

(5 @ 1 or development)

[5]

		2.
Page 7	Mark Scheme	Syllabus
	IGCSE – October/November 2013	0460

(c) Levels marking

3

Level 1 (1–3 marks)

Cambridge.com Statements including limited detail describing the main changes in land use in the a 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.

Level 3 (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]

(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] 2 @ 1 mark (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]

		2.
Page 8	Mark Scheme	Syllabus Syllabus
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(b) (i) Ideas such as:

Idea from Fig 6:	Matched with any hazard for people selected from:	0.0
Pyroclastic flow	Kill/crush/injure/burn people	2
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

[5]

[3]

[4]

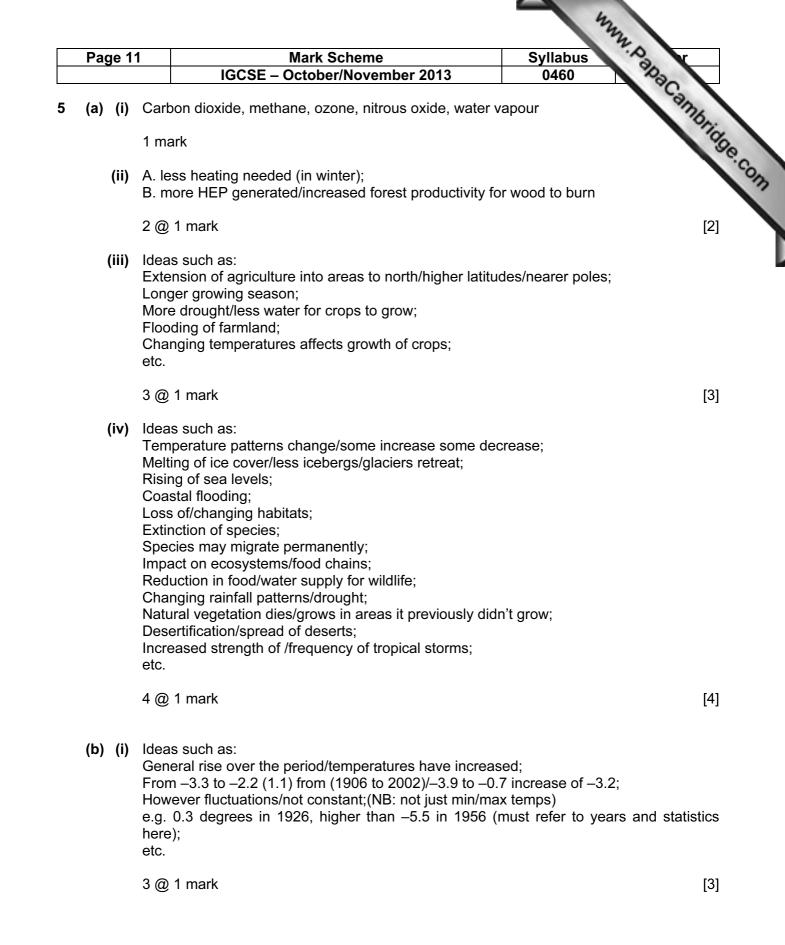
	9	Mark Scheme Syllabu	s A
		IGCSE – October/November 2013 0460	122
(c) Le	vels ma	arking	www.papaCambios
Le	vel 1 (1	1–3 marks)	19
		its including limited detail describing impacts of an earthquake.	
		1–6 marks)	
		ned example eloped statements describing impacts of an earthquake.	
		5 if no named example)	
Us	ses nam	⁷ marks) ned example (e.g. Kobe).	
		ensive and accurate statements including some place specific	reference.
		es may refer to impacts such as:	
Inj	ss of lif uries		
Ho	omeless	s to buildings	
Da	amage t	to infrastructure	
Dis etc	•	n of transport	[7]
			[Total: 25]
			[101011 =0]
(a) (i)	A win	nd which blows from the west/to the east	
	1 ma	rk	[1]
(ii)	09.00) Cirrus	
(ii)) Cirrus) Cumulonimbus	
(ii)	14.00		[2]
(ii) (iii)	14.00 2 @ ⁻ Differ) Cumulonimbus 1 mark rences such as:	[2]
	14.00 2 @ ⁻ Differ Afterr) Cumulonimbus 1 mark	
	14.00 2 @ ⁻ Differ Aftern Morn Wind) Cumulonimbus 1 mark rences such as: noon is colder/morning is warmer; ing has stronger wind speeds/wind speed dropped in afternoor direction from west in morning north west in afternoon;	
	14.00 2 @ ⁻ Differ Aftern Morn Wind Dry ir Bette	Cumulonimbus 1 mark rences such as: noon is colder/morning is warmer; ing has stronger wind speeds/wind speed dropped in afternoor direction from west in morning north west in afternoon; n morning but rain in afternoon; er visibility in morning;	
	14.00 2 @ ⁻ Differ Aftern Morn Wind Dry ir Bette	Cumulonimbus 1 mark rences such as: noon is colder/morning is warmer; ing has stronger wind speeds/wind speed dropped in afternoor direction from west in morning north west in afternoon; n morning but rain in afternoon;	
	14.00 2 @ ⁻ Differ Afterr Morn Wind Dry ir Bette Clear etc.	Cumulonimbus 1 mark rences such as: noon is colder/morning is warmer; ing has stronger wind speeds/wind speed dropped in afternoor direction from west in morning north west in afternoon; n morning but rain in afternoon; er visibility in morning; r sky in morning but cloudy in afternoon;	n;
	14.00 2 @ ⁻ Differ Afterr Morn Wind Dry ir Bette Clear etc.	Cumulonimbus 1 mark rences such as: noon is colder/morning is warmer; ing has stronger wind speeds/wind speed dropped in afternoor direction from west in morning north west in afternoon; n morning but rain in afternoon; er visibility in morning;	n;
	14.00 2 @ ^ Differ Aftern Morn Wind Dry in Bette Clean etc. 3 @ ^	Cumulonimbus 1 mark rences such as: noon is colder/morning is warmer; ing has stronger wind speeds/wind speed dropped in afternoor direction from west in morning north west in afternoon; n morning but rain in afternoon; er visibility in morning; r sky in morning but cloudy in afternoon;	n;
(iii)	14.00 2 @ ^ Differ Aftern Morn Wind Dry ir Bette Clear etc. 3 @ ^ Anem	0 Cumulonimbus 1 mark rences such as: noon is colder/morning is warmer; ing has stronger wind speeds/wind speed dropped in afternoor direction from west in morning north west in afternoon; n morning but rain in afternoon; er visibility in morning; r sky in morning but cloudy in afternoon; 1 mark	
(iii)	14.00 2 @ ^ Differ Aftern Morn Wind Dry ir Bette Clear etc. 3 @ ^ Anem Wind	0 Cumulonimbus 1 mark rences such as: noon is colder/morning is warmer; ing has stronger wind speeds/wind speed dropped in afternoor direction from west in morning north west in afternoon; n morning but rain in afternoon; er visibility in morning; r sky in morning but cloudy in afternoon; 1 mark nometer = wind speed /velocity	n;

Page 1	0	Mark Scheme	Syllabus	N.
		IGCSE – October/November 2013	0460	
(ii)	In th So r Abo As to So t In a To a On t	is such as the 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 (hat rain doesn't bounce off concrete into rain gauge fenced/walled compound; twoid tampering (reason); he roof of a building; vinds are not slowed down by obstructions;	ason); (reason);	ambridg.
	4@	1 mark with 1 mark reserved for each of describe/e	explain	[4]
(iii)	Funi Atta Cylir 20 c Half The mea Che	is 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;	inder is measured/poured	into a
	NB:	Diagram not compulsory. No double credit for label	ling and text.	
	5@	1 mark or development		[5]
(c) Lev	vels m	narking		
		1–3 marks) nts including limited detail explaining chosen weath	ering type.	
Sta	ates co	4–6 marks) prrect weathering type linking with explanation. veloped statements explaining chosen weathering t	ype.	
NB	: MA)	X 5 if stated weathering type does not match explan	nation or no process is state	ed.
		7 marks) prrect weathering type linking with explanation.		

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

[7]

[Total: 25]



	Mark Scheme	Syllabus C
	IGCSE – October/November 2013	0460 23
(ii)	Ideas such as: Generation of electricity; By using fossil fuels/in coal fired power stations (dev); Burning fuels/oils/petrol in vehicles/transport; Air travel; Deforestation; Which prevents use of carbon dioxide by trees; Ranching/grazing of cattle (releases methane); Factories burning coal; Incineration of waste; etc. 5 @ 1 mark or development	Syllabus 0460 bacombine 5
(c) Lev	els marking	
	<u>el 1</u> (1–3 marks) ements including limited detail describing causes of w	ater pollution.
	<u>el 2</u> (4–6 marks)	
	s named example e developed statements describing causes of water p	ollution.
NB	MAX 5 if no named example	
	<u>el 3</u> (7 marks)	
Use	s named example (e.g. North Sea). nprehensive and accurate statements including some	place specific reference.
	didates may refer to causes such as:	
Ind	/age disposal ıstrial effluent	
	ning activities lear waste	
	spillage	[7
GIU.		-
		[Total: 25
(a) (i)	Work in hotel/waiter/taxi driver/tourist guide/selling so etc.	ouvenirs/working for tourist agency
	1 mark	[1
(ii)	Environmental cost = air/water pollution/destruction of Environmental benefit = protection of natural environmental	

IGCSE – October/November 2013 0460 (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. (must state any of above) may be insulting to culture/religion; Assaults/robberies/pick-pocketing/violence; etc. (a) 3 @ 1 mark (a) (a) (a) (iv) Ideas such as: Foreign exchange/increased economic growth/money brought into area/more government revenue; Enabling spending on education/hospitals or other examples; Development of infrastructure (water, electricity, or other examples); Development of transport or examples; Cultural exchange; Retention of culture/traditions; Increased market for local farmers; More business for local shops; They will build more facilities e.g. swimming pools that locals can use too; etc. (a) b) (i) Ideas such as: Sandy beaches; Tropical/colourful vegetation/plants; Clear/clean/blue/calm seas/water; Temples/religious sites/mosques/churches/cathedrals; Statues; Marinas/areas of boats/port/harbour/sailing; Mountains; Old buildings/ancient buildings; etc. (i)	Page 13	Mark Scheme	Syllabus	0
 a @ 1 mark [3] (iv) Ideas such as: Foreign exchange/increased economic growth/money brought into area/more government revenue; Enabling spending on education/hospitals or other examples; Development of infrastructure (water, electricity, or other examples); Development of transport or examples; Cultural exchange; Retention of culture/traditions; Increased market for local farmers; More business for local shops; They will build more facilities e.g. swimming pools that locals can use too; etc. 4 @ 1 mark [4] o) (i) Ideas such as: Sandy beaches; Tropical/colourful vegetation/plants; Clear/clean/blue/calm seas/water; Temples/religious sites/mosques/churches/cathedrals; Statues; Marinas/areas of boats/port/harbour/sailing; Mountains; Old buildings/ancient buildings; etc. 			0460	PD2
 (iv) Ideas such as: Foreign exchange/increased economic growth/money brought into area/more government revenue; Enabling spending on education/hospitals or other examples; Development of infrastructure (water, electricity, or other examples); Development of transport or examples; Cultural exchange; Retention of culture/traditions; Increased market for local farmers; More business for local shops; They will build more facilities e.g. swimming pools that locals can use too; etc. 4 @ 1 mark [4] b) (i) Ideas such as: Sandy beaches; Tropical/colourful vegetation/plants; Clear/clean/blue/calm seas/water; Temples/religious sites/mosques/churches/cathedrals; Statues; Marinas/areas of boats/port/harbour/sailing; Mountains; Old buildings/ancient buildings; etc. 		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/reli Assaults/robberies/pick-pocketing/violence;	igion;	Cambride
 Foreign exchange/increased economic growth/money brought into area/more government revenue; Enabling spending on education/hospitals or other examples; Development of infrastructure (water, electricity, or other examples); Development of transport or examples; Cultural exchange; Retention of culture/traditions; Increased market for local farmers; More business for local shops; They will build more facilities e.g. swimming pools that locals can use too; etc. 4 @ 1 mark [4] b) (i) Ideas such as: Sandy beaches; Tropical/colourful vegetation/plants; Clear/clean/blue/calm seas/water; Temples/religious sites/mosques/churches/cathedrals; Statues; Marinas/areas of boats/port/harbour/sailing; Mol buildings/ancient buildings; etc. 	:	3 @ 1 mark		[3]
 b) (i) Ideas such as: Sandy beaches; Tropical/colourful vegetation/plants; Clear/clean/blue/calm seas/water; Temples/religious sites/mosques/churches/cathedrals; Statues; Marinas/areas of boats/port/harbour/sailing; Mountains; Old buildings/ancient buildings; etc. 		Foreign exchange/increased economic growth/mo government revenue; Enabling spending on education/hospitals or other exam Development of infrastructure (water, electricity, or other Development of transport or examples; Cultural exchange; Retention of culture/traditions; Increased market for local farmers; More business for local shops; They will build more facilities e.g. swimming pools that lo	nples; r examples);	area/more
Sandy beaches; Tropical/colourful vegetation/plants; Clear/clean/blue/calm seas/water; Temples/religious sites/mosques/churches/cathedrals; Statues; Marinas/areas of boats/port/harbour/sailing; Mountains; Old buildings/ancient buildings; etc.		4 @ 1 mark		[4]
3 @ 1 mark [3]		Sandy beaches; Tropical/colourful vegetation/plants; Clear/clean/blue/calm seas/water; Temples/religious sites/mosques/churches/cathedrals; Statues; Marinas/areas of boats/port/harbour/sailing; Mountains; Old buildings/ancient buildings;		
	:	3 @ 1 mark		[3]

	Mark Schen		Syllabus Syllabus	r
	IGCSE – October/Nov	ember 2013	0460	2
Lack And Diffic Larg Skill As tr Wea there The Tour Man Tour Man Lack	s such as: of raw materials for investmer imports would be expensive (c sult to establish market for mar e/increasing demand for touris s base is poor for development aditional employment has bee ther/climate/landscape favour e; efore overseas investors are h ism development; y jobs in tourism are low skill/p ism is seen as less damaging ufacturing/to build factories is r of technology;	nt in industry; lev); nufactured products; m; t of manufacturing; n in farming (dev); s development of to happy to invest in ay; to the environment th more damaging;	purism/beautiful scenery	
etc. NB:	of infrastructure e.g. roads/po Reserve one mark for referenc			
5 @	1 mark or development			[5]
	1–3 marks) nts including limited detail des	scribing what has be	en done to conserve th	e natural
environ n <u>Level 2</u> (Uses nai	4–6 marks) ned example. veloped statements describi	ng what has been	done to conserve the	
environm <u>Level 2</u> (Uses nai More de environm	4–6 marks) ned example. veloped statements describi	ng what has been	done to conserve the	
environm <u>Level 2</u> (Uses nau More de environm NB: Max <u>Level 3</u> (Uses nau Compreh natural e Candidat National Restrictin Conservit	 4–6 marks) ned example. veloped statements describinent. 5 if no named example. 7 marks) ned example (e.g. Menorca). ensive and accurate statemenvironment, including some plates may refer to ideas such as: parks ing tourist numbers ng wildlife 	nts describing what ace specific reference	has been done to cons	e natural
environm <u>Level 2</u> (Uses nau More de environm NB: Max <u>Level 3</u> (Uses nau Compreh natural e Candidat National Restrictin Conservi	 4–6 marks) ned example. veloped statements describinent. 5 if no named example. 7 marks) ned example (e.g. Menorca). ensive and accurate statemenvironment, including some plates may refer to ideas such as: parks ing tourist numbers 	nts describing what ace specific reference	has been done to cons	e natural