

Cambridge International Examinations Cambridge International General Certificate of Secondary Education

GEOGRAPHY

0460/11 October/November 2016

Paper 1 MARK SCHEME Maximum Mark: 75

Published

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This document consists of 13 printed pages.



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Page 2	Mark Scheme	Syllabus	Pape	er
	Cambridge IGCSE – October/November 2016	0460	11	
1 (a) (i) (ii)	South KoreaChinaItaly Correct order needed Decrease = Japan/Germany/Poland/Russia Highest rate of growth = India	[1 r [2 @ 1 r	nark] nark]	[1] [2]
(iii)	Ideas such as: No abortion available; little availability of/people don't use contraception/family p not educated re. contraception/impact of population grow not likely to be able to afford contraception; want children to work/earn money (or example); want children to look after parents in old age; want children to look after younger siblings/do domestic of no government policy to reduce family size; have large families due to tradition/status; have large families due to religious influences; high infant mortality rate/have greater number of children hope some will survive; polygamy; women do not have careers; keep having children until boys is born to carry on family desire for girl children to obtain dowry money etc. 	th/family pla hores; in the		[3]
(iv)	 Ideas such as: people do not have enough resources/raw materials; lack of fuel/power (or example such as electricity); lack of work; poverty/people cannot afford (specified items, e.g. educationadequate food supplies/starvation/famine/lack of space poor access to education; poor access to health care/lack of hospitals; high levels of disease/high death rates/low life expectanc lack of/overcrowded housing/not enough space for housing in/growth of squatter settlements; atmospheric/water pollution; inadequate water supply; lack of sanitation, overcultivation; overgrazing; disputes over agricultural land/places to live; traffic congestion; 	for agricultu y/high IMR;	ire;	
	etc.	[4 @ 1 r	nark]	[4]

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Page 3	•	Mark Scheme	Syllabus	Paper
		Cambridge IGCSE – October/November 2016	0460	11
(b)	(i)	Increasing proportion of 65+/old dependents/old people/people livin Decreasing proportion of 0–19/children/young people/young depen Increasing proportion of 20–64/economically active/adults; Supporting statistics, e.g. 5% over 65 in 1950 likely to be 16% in 20 /3X greater percentage, etc. (1 mark MAX – Reserved) (NB 1% tolerance on statistics)	dents;	nark] [3]
	(ii)	 Ideas such as: lowering of death rates/increase of life expectancy; improvements in health (medical) care/more doctors/more equipment (technology) used in hospitals; reduction of diseases/inoculation/medicines/cures for illne improved sanitation; better water supplies; better diet/food supplies; healthy lifestyle/exercise; education about health/hygiene/diet; support for elderly/old people's homes; availability of pensions; lowering of birth rate to MAX 1, etc. (5 @ 1 mark) or development 	•	etter [5]
(c)	Le	vels marking		
()	<u>Le</u>	<u>vel 1</u> tements including limited detail which evaluate the population policy	[1–3 m	arks]
	Lev	vel 2	[4–6 m	arks]
	Us Mo	es named example. re developed statements which evaluate the population policy. 3 Max 5 if no named or inappropriate example)	-	
	Le	vel 3	[7 m	arks]
	Со	es named example. mprehensive and accurate statements including some place specific erence.	-	-
		ntent Guide: swers are likely to refer to: changes in birth rates consequences of falling/rising birth rates imbalance in proportions of male/female migration, etc.		
	Na Sp Po	<u>ce specific reference is likely to consist of:</u> med parts of the chosen country/locational detail, ecific details of the policy pulation data, etc. The population policy could relate to natural population change or m	-	[7] 25 marks]

r ay	je 4	F	Mark Scheme	Syllabus	Pape	ər
			Cambridge IGCSE – October/November 2016	0460	11	
(a)	(i)	Area close to the CBD/close to the centre of the city	[1 r	nark]	[1
		(ii)	long and straight; right angles to each other; parallel grid pattern/rectangular/square, etc.	[2 @ 1 r	nark]	[2
		(iii)	 Ideas such as: to improve living conditions/quality of life/standard of livin areas are old/to modernise housing/build new houses/we houses/are derelict; properties lack amenities; factories/industries have closed down/are unoccupied; to attract/develop new business opportunities/industrial e parks/factories; to create employment (jobs)/people need jobs; new road building/inner ring roads being built/to improve /building an urban expressway; some land is currently not being used/wasted, etc. 	e need more estates/retail traffic flow	nark]	[(
(b)	(i)	A = Suburbs			
			B = CBD C = Inner city	[3 @ 1 r	nark]	[:
		(ii)	One mark per appropriate description of land use based on photograph selected with credit for development;			
			Photograph A: housing/apartments; High rise buildings; Open space/sports field; Modern buildings, etc.			
			Photograph B: High rise buildings; High density land use/crowded; Offices; Especially on upper floors; Shops/retail; High order services; Roads; Restaurants; Apartments; Hotels; banks, etc.			
			Photograph C: High density; Old buildings; Housing/apartments; Offices;			[•

age 5	www.dynam Mark Scheme	Syllabus	Paper
<u></u>	Cambridge IGCSE – October/November 2016	0460	11
(i	 ii) Ideas such as: variation in the cost of land; land will be higher cost in CBD; variation in accessibility; CBD will be most accessible/focus of roads; Relief of land; Historical development of urban area etc. 		
	(5 @ 1 mark) or development		[5]
	Levels marking <u>Level 1</u> Statements including limited detail describe the effects of urban sprawl.	[1–3 m	arks]
	Level 2	[4–6 m	arkel
-	Uses named example.	[+ -0 m	antoj
	More developed statements which describe the effects of urban sprawl.		
	(NB Max 5 if no named or inappropriate example)		
	<u>Level 3</u> Uses named example. Comprehensive and accurate statements with some place specific refer	-	arks]
	<u>Content Guide:</u> Answers are likely to refer to: Deforestation/loss of vegetation/loss of farmland, Impacts on ecosystems/food chains, Traffic congestion, Atmospheric pollution, Water pollution, Water pollution. Noise pollution, Visual pollution. House prices/land values increase, Growth of squatter settlements, etc.		
	<u>Place specific reference is likely to consist of:</u> Locational details, Specific details of transport/communication network, Named businesses, etc.		[7]

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Pag	e 6		Mark Scheme Cambridge IGCSE – October/November 2016	Syllabus 0460	<u>Pape</u> 11	er
				0400		
3 (a	a)	(i)	A = Strato-volcano B = Shield volcano			
			NB Both needed for 1 mark	[1 n	nark]	[1]
		(ii)	 Ideas such as: B is higher/A is lower (or statistics); B is wider/A is narrower (or statistics); A has different layers but B does not; A has 2 vents B has one; B is more gently sloping/A is steeper, etc. NB Points need to be comparative. 	[2 @ 1 n	nark]	[2]
		(iii)	X = Vent Y = Magma Chamber Z = Crater	[3 @ 1 n	nark]	[3]
		(iv)	Ideas such as: scenic beauty/views; tourist industry (examples of jobs in tourist industry); fertile soils/high yields of crops; geothermal power/'free' hot water; minerals/mining or example; building materials; hot springs; religious/cultural significance, etc.; 	[4 @ 1 n	nark]	[4]
(1	b)	(i)	Ideas such as: circle/ring; around Pacific Ocean; linear/in lines; along west of Americas; east of Asia; north of Australasia; isolated volcanoes (2 volcanoes) in center of Pacific Oce 	an, etc. [3 @ 1 n	nark]	[3]
		(ii)	Ideas such as: along plate boundaries/between plates/edge of plates/wh meet; which are lines of weakness; convergence of plates/plates move towards each other; subduction/one plate sinks; as oceanic crust is more dense (dev); destruction of crust/magma created; build up of magma; creating pressure (dev) release of magma; through cracks in crust (dev); hot spots (accept if related to Hawaii or similar, etc.)	ere plates		
			(5 @ 1 mark) or development			[5]

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(c)	Levels marking				
	Level 1 Statements including limited detail which describe the impacts of an earthquake.	[1–3 m	arks]		
	Level 2 Uses named example. More developed statements which describe the impacts of an earthqua	[4–6 m ke.	arks]		
	(NB Max 5 if no named or inappropriate example)				
	<u>Level 3</u> Uses named example. Comprehensive and accurate statements including some place specific reference.	-	arks]		
	<u>Content Guide:</u> Answers are likely to refer to: deaths, injuries, destruction of property, fires, damage to infrastructure, economic impacts, etc.				
	<u>Place specific reference is likely to consist of:</u> Locational details, Date/Richter scale measurement, Details of named parts of the area, Statistical information, etc.		[7]		
		[Total:	25 marks]		

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Ρ	age 8		Mark Scheme	Syllabus	Pape	ər	
			Cambridge IGCSE – October/November 2016	0460	11		
4	(a)	(i)	Meander	[1 r	nark]	[1]	
		(ii)	Ideas such as: gentle slope; rocks/pebbles/deposits; inside bend, etc.	[2 @ 1 r	mark]	[2]	
	(iii)	 Ideas such as: speed of flow is slow/reduced/less energy; deposition of materials insufficient energy to move them; accumulation over time, etc. 	[3 @ 1 r	nark]	[3]	
	(iv)	e.g. flooding : reservoirs/dams upstream; increase height of banks/raise levees/build artificial levees; afforestation/reduce deforestation; overflow channels/spillway; straighten channel; dredging; widening river; warning systems/monitoring; land zoning, etc.				
	(b)	(i)	erosion: strengthen banks/add hard rocks to banks/place rock barriers in front of banks; use gabions; concrete river channel, etc. (4 @ 1 mark) with 1 reserve on each section Ideas such as: • lower course is wider/upper is narrower; • lower course has gentler slopes/upper steeper slopes;			[4]	
			 Industrial stopes, appendix sto	[3 @ 1 r	nark]	[3]	

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	 (ii) Explanation of formation of waterfall: horizontal hard rock layer/hard rock on top of soft; erosion of soft rock; named erosional process (MAX 1) formation of plunge pool; undercutting/hard rock not supported; collapse of hard rock; retreat of waterfall; gorge formation, etc. 			
	NB Credit marks on diagram labels or in written text but no double credit.			
	(5 @ 1 mark) or development			[5
(c)	Levels marking			
	<u>Level 1</u> Statements including limited detail which describe opportunities river.	provided	[1–3 m for people	-
	<u>Level 2</u> Uses named example. More developed statements which describe opportunities provic	led for peo	[4–6 m	-
	(NB Max 5 if no named or inappropriate example)			
	<u>Level 3</u> Uses named example.		-	arks]
	Comprehensive and accurate statements, including some place	specific r	eference.	
	<u>Content Guide:</u> Answers are likely to refer to: agriculture, fishing, transportation, water supply, power supplies, tourism, etc.			
	Place specific reference is likely to consist of: Locational details;			г -7
	Specific locations along the river, etc.			[7
			[Total:	25 marks

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Page 10	Mark Scheme	Syllabus	Paper
	Cambridge IGCSE – October/November 2016	0460	11
5 (a) (i)	Human Development Index	[1 r	nark] [1]
(ii)	Higher generally in North America/high North America but low/medium in Africa; more varied in Africa	[2 @ 1 r	nark] [2]
(iii)	 Ideas such as: It takes into account a variety of factors/it is a composite i one indicator/provides a general/overall indication of deverthan just using income; Takes into account life expectancy/education/mean years Produces an index of 0 to 1/easy to carry out comparison countries/change over time 	elopment/it is of schoolin	s better
		[3	@ 1 mark]
(iv)	Ideas such as: specific references to variation in climate or example; variations in relief; variations in soil fertility; presence/absence of rivers/water supplies/drought; communications/accessibility/transport links; impacts of historical development/length of time developm been occurring, impacts of colonisation; presence/absence of raw materials/resources (or example accessibility/presence of ports/landlocked; government policies/political system; corruption; varying levels of education/skills; trading policy/free trade; AIDs; investment/aid from abroad/charities; presence of TNCs; war/unrest; degree of reliance on primary production; 		
	 development of a specific industry (e.g. tourism, mining, commercial agriculture, etc.) 		
		[4 @ 1 r	nark] [4]

[4 @ 1 mark] [4]

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age 11	Mark Scheme Cambridge IGCSE – October/November 2016	Syllabus 0460	Paper 11
(b) (i)	 Ideas such as: positive relationship/life expectancy increases with GNP/lo expectancy = low/high GNP; statistics to illustrate relationship – 2 pairs required; relationship is not exact/anomaly; e.g. over 10 000 there is little if any relationship, etc. NB Reserve 1 marks for statistics 	ow/high life [3 @ 1 m	nark] [3
(ii)	 Ideas such as: high GNP will result in more investment in health care; and people will be able to afford medicines (dev); in countries with high GNP people will be able to afford en so less likely to suffer malnutrition (dev) in low GNP countries many people have poor sanitation; in low GNP countries many people have water supply; so many die from water borne diseases (dev); high GNP countries are able to pay pensions to elderly; in high GNP countries education is provided about health care/diet, etc. 	ough food/g	ood diet;
	(5 @ 1 mark) or development		[5
(c) Lev	vels marking		
Sta	vel 1 Atements including limited detail which describe organisation and/or As in a transnational corporation.	[1–3 ma	arks]
Us Mo tra	vel 2 es named example. are developed statements which describe organisation and/or links in ansnational corporation. 3 Max 5 if no named or inappropriate example)	[4–6 ma a	arks]
Us Co	<u>vel 3</u> es named example. mprehensive and accurate statements, which describe organisation a ks in a transnational corporation, including some place specific refere		arks]
An Inp Pro Ou Ma	ntent Guide: swers could refer to: buts, bcesses, tputs, inufacturing and assembly locations, ansport network, etc.		
	nce specific reference is likely to consist of: cational details; ecific details of transnational,		

[Total: 25 marks]

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0		Cambridge IGCSE – October/November 2016	0460	11			
6 ((a) (i <u>)</u>	A condition that results from eating a diet in which <u>nutrients</u> are not much) such that it causes health problems/lack of balanced diet/lac nutrients in the diet, etc.	ck of essenti	al	[1]		
	(11)	More malnutrition in Niger/Niger has more areas with large number of cases [accept comparative statistics if totals worked out – 49000 – 170000 (BF) 271000 – 370000+ (N)] ; in regions of Niger 40000–60000/over 60000 but only up to 20000 regions of Burkino Faso; every region in both countries has some malnutrition; Burkina Faso has a more even spread of malnutrition across the country)	nark]	[2		
	(iii)	Ideas such as: drought/desertification/deserts/no nearby rivers to use; infertile soils; population pressure/growth/large population/overpopulation crop diseases; pests/locusts; lack of money/poverty/unemployment/can't afford to buy (war; cannot afford fertilisers/pesticides; lack of cultivable land; flooding/tsunami; volcanic eruption; tropical storms; overdependence on cash crops/export market; trade sanctions; lack of transportation to rural areas, etc. 	·		[3		
	(iv)	 iv) Ideas such as: death/starvation/low life expectancy/malnutrition/famine; conditions such as marasmus/scurvy/kwashiorkor/rickets, etc. people are too weak/cannot work properly; vicious circle/cannot escape poverty; people cannot resist disease/infection/people easily get disease; requirement of international aid; appropriate specified crime; increased food prices, etc. 					
((b) (i <u>)</u>	 Ideas such as: produces soy milk; protein rich; products made from left over solids/tofu/yogurt/bread; less students will go hungry/lack protein/have poor nutrition/provides food for children/reduces cases of 					

- malnutrition; they will perform/concentrate better in school, etc. [3 @ 1 mark] [3] •

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	Cambridge IGCSE – October/November	2016	0460	11	
(ii)	Ideas such factors such as: irrigation; use of fertilisers/manure; perticides; herbicides/weedkillers; Iand reform; use of high quality seeds or example, e.g improve food distribution network; improve food storage/refrigeration/grain s greenhouses/glasshouses; aeroponics; hydroponics; terracing; selective breeding; international aid; trading of goods (or example) in exchang mechanisation, etc.	silos;	s/HYV see	eds;	
	(5 @ 1 mark) or development				[5
(c) Le	vels marking				
	vel 1 atements including limited detail which describe the	farming system.	[1–3 ma	arks]	
Us	<u>vel 2</u> es named example.		[4–6 ma	arks]	
	ore developed statements which describe the farming B Max 5 if no named or inappropriate example)	g system.			
,	vel 3		[7 ma	arkel	
Us Co	es named example. Imprehensive and accurate statements, referring to i Sluding some place specific reference.	inputs, processes a	-	-	
An Na Ec Pro Ou By <u>Pla</u> Lo	entent Guide: swers are likely to refer to: itural inputs, iman inputs, onomic inputs, ocesses, itputs, -products, etc. ace specific reference is likely to consist of: cational details; imed settlements, e.g. markets				

Specific details about the farm/area, Statistical information, etc.