

CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the May/June 2013 series

0460 GEOGRAPHY

0460/11

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 May/June 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

			2.	
Page 2	Mark Scheme	Syllabus	· 00.	N.
	IGCSE – May/June 2013	0460	No.	

- (a) (i) Population of working age/aged 15 to 64/people who work/people who c 1 themselves/people who pay taxes/can financially provide for themselves;
- ambridge.com Smaller or less % in Mexico at 65+ or any appropriate age group (ii) A dependents/elderly/old people)/larger % at 65+ (or any appropriate age group) in United States; United States pyramid has wider apex/top to pyramid/Mexico has narrower apex/or could use appropriate comparative statistics; etc.
 - В Smaller or less percentage of population in younger age groups/young dependents in United States/wider base to Mexican pyramid; etc.

NB must look for comparatives.

(iv)

[2 × 1] [2]

(iii) Candidates should compare here though we should link together two discrete accounts providing they are not simple repetition of figures without interpretation.

Ideas such as: greater proportion of young dependents in Mexico/smaller proportion dependents in United States; about 2x/double percentage in Mexico than United States; about 44–47% of population of Mexico compared with about 22–24% of States;			Ū
e.g. 0–4 (or 5–9 or 10–14) 15/16% Mexico/7% United States (MAX 1 on any identified age band)	[3 × ′	1]	[3]
Ideas such as: high birth rates; little availability of contraception/birth control/or examples; not educated re: contraception; not likely to be able to afford contraception; likely to be able to afford contraception; likely to want children to work on the land/farms; likely to want children to send out to work/earn money; likely to want children to help around the house/look after younger children/ likely to want children to look after parents in old age; not likely to be affected by government policy to reduce family size; likely to have large families due to tradition/wealth/to get a son; likely to have large families due to religious influences/religion does not allo contraception; no access to abortion; high infant mortality rates/people have more children in the hope that some women stay in the home/don't work; high death rates/low life expectancy; poor health care; poor sanitation; low water quality; lack of care homes/care for elderly; AIDS; etc.	I	rvive	
	ι	.1	[7]

b) (i) Ideas such as: population over 75 is expected to increase of them in 2031;	rise by 2031 in UK/there will be mon ore than period before 2021/by 0.5m	ambri
population over 75 is expected to increase or them in 2031;	rise by 2031 in UK/there will be more	Inbri
increase is expected to be rapid after 2021/ between 2011–2021 and 2m by 2031; expected to rise from 4.4 to 6.8 million (by 2 allow tolerance of 4.4–4.5 to 6.8–6.9 (increase increase by 57% from 2011 to 2031;	ore than period before 2021/by 0.5m 7 million); <i>e by 2.3–2.5)</i> [3 × 1	
 (ii) Ideas such as: strain on working population/economy/gover economically active/government have to sup higher taxation; have to pay for pensions; more money to be spent on health care/mor need to establish/spend money on care hon fewer workers available/older people do not work; reduced supply of workers leads to increase people have to retire later; more immigration; less people to defend country; facilities for young people close/money take longer waiting list in hospitals; 	port/take care of/look after more peop health care needed; es/specified service for the elderly; contribute to economy/older people do n wages;	

(c) Levels marking

Level 1 (1–3 marks)

Statements including limited detail describing the impacts of policies which have been used to influence growth rates.

Level 2 (4–6 marks)

Uses named example.

More developed statements describing the impacts of policies which have been used to influence growth rates.

(NB MAX 5 MARKS WITH NO EXAMPLE)

Level 3 (7 marks) Uses named example Comprehensive and accurate statements describing the impacts of policies which have been used to influence growth rates including some place specific reference.

Answers are likely to refer to impacts such as: changing population growth imbalance in population structure and result of it advantages/disadvantages of policy subsequent policies Advantages of incentives

[7]

[Total: 25]

Pa	ige 4		Mark Scheme	Syllabus	· A	
			IGCSE – May/June 2013	0460	No.	
(a)	(i)	Asia	I		IN Papecall	76.
	(ii)	Idea	is such as:			70
	()		outh/South East Asia/India & China;			
			ibution is uneven/there are clusters in some parts of	of the world;		
			t/many/most cities of 5million+ are in northern herr e are more in LEDCs than MEDCs;	nsphere;		
			are widespread;			
		•	e are some in all continents except Australasia;			
		a lo	t/many/most are on or near to coasts;		[2 × 1]	[2]
	(iii)	А	Ideas such as:			
	(,		birth rates exceed death rates/high birth rate and lo	ow death rate;		
			reduction of death rates;		F0 (1	
			life expectancy increased;		[3 × 1]	[3]
		в	Ideas such as:			
			lots of/many people move there/migrate into;			
			from rural areas/from other countries;			
			due to better work opportunities/higher paid jobs; better health care;			
			improved sanitation;			
			better water supplies;			
			education opportunities; natural disaster or example;			
			war; etc.			
			NB MAX 3 marks for push or pull factors.		[4 × 1]	[4]
(b)	(i)	А	China			
• •	.,		Bangladesh			
		С	Iraq		[3 × 1]	[3]
	(ii)	Idea	is such as:			
	-		y people are unable to obtain jobs/unemployed;			
			ey work for low pay/in informal sector; annot afford better housing/so forced to live in slum	e (day)/ea build a	wn housos	
		(dev	-			
		inad	equate investment in housing stock/not enough ho			
			uthorities cannot cope with increases in population	• ?		
			to other government/local authority priorities; of building space; etc.	[5 x 1 mark or dev	volonmont ¹	[5]

lack of building space; etc.

[5 × 1 mark or development] [5]

ra	ge 5	Mark Scheme	Syllabus Syllabus
	0	IGCSE – May/June 2013	0460
(c)	Lev	vels marking	ant
		<u>rel 1</u> (1–3 marks) tements including limited detail on methods used to	Syllabus 0460 0460 o improve living conditions in cities.
	Use Mor	<u>vel 2</u> (4–6 marks) es named example. re developed statements on methods used to impro en done to improve it).	
	(NB	3 MAX 5 MARKS WITH NO EXAMPLE)	
	Use Cor	<u>vel 3</u> (7 marks) es named example. Can be MEDC or LEDC examp mprehensive and accurate statements on methods uding some place specific reference.	
	wat san hou infra	swers are likely to refer to impacts such as: er litation lising astructure althcare	
		Ication	[7
			[Total: 2
(a)	(i)	Ski lift	[1] ['
	(ii)	Problems such as: destruction of houses/people homeless; farmland/crops destroyed/livestock killed; transport disruption/road covered by ash; flooding from snow melt; death/suffocation from ash; injuries from lava/volcanic bombs; tourists/skiers may not come; loss of jobs in e.g. tourism/farming; etc.	[2 × 1] [2
	(iii)	plates move apart; so a line of weakness/gap is created; where magma or lava can reach the surface/form	s islands/bubbles up/bursts through
		crust; etc.	[3 × 1] [3
	(iv)	Ideas such as: fertile soils/high crop yields/good for farming; geothermal power; attract tourists/tour guides/souvenirs or other exar	
		resource extraction/or examples e.g. sulphur;	

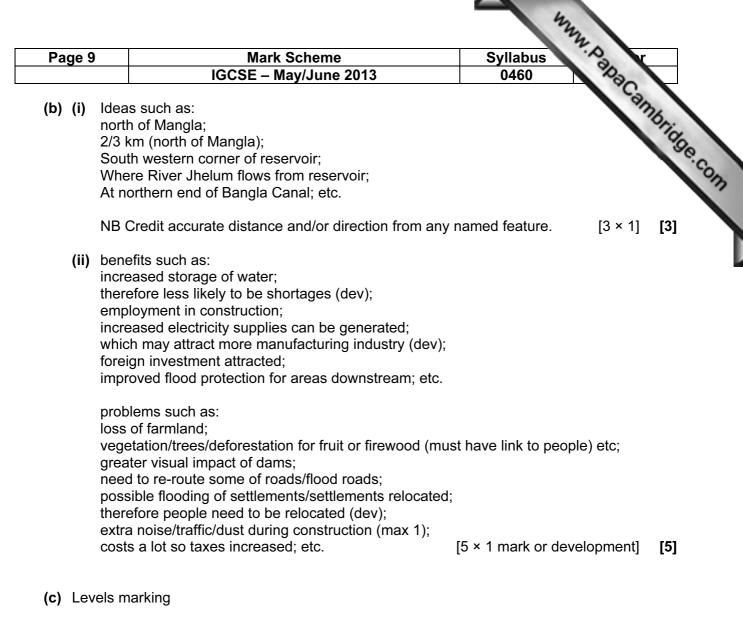
Page 6	Mark Scheme	Syllabus r
	IGCSE – May/June 2013	0460
b) (i) Idea	as such as:	Syllabus 0460 East Nepal; med country);
	28N,	· Br.
	88E,	19
	limalayas;	
	ng border of China and Nepal/in Nepal/in North E	ast Nepal;
	th East of India (or correct direction from any nar	med country);
	th of Bay of Bengal;	
Asia		[0 4] [0]
650	–750 km from coast; etc.	[3 × 1] [3]
• •	as such as:	
•	es move towards each other;	
	ision zone/convergent boundary (dev);	
	n are continental plates;	
	ssure/compression; subduction occurs;	
	ocks are of same density;	
	ks squeezed;	
	ft occurs/land rises etc.;	[5 × 1 mark or development] [5]
Level 1	(1–3 marks)	
<u>Level 1</u> Stateme <u>Level 2</u> Uses na More de	-	
<u>Level 1</u> Stateme <u>Level 2</u> Uses na More de (NB MA	(1–3 marks) ents including limited detail describing effects of a (4–6 marks) imed example. eveloped statements describing effects of an eart X 5 MARKS WITH NO EXAMPLE)	
<u>Level 1</u> Stateme <u>Level 2</u> Uses na More de (NB MA <u>Level 3</u>	(1–3 marks) ents including limited detail describing effects of a (4–6 marks) imed example. eveloped statements describing effects of an eart X 5 MARKS WITH NO EXAMPLE) (7 marks)	
Level 1 Stateme Uses na More de (NB MA Level 3 Uses na	(1–3 marks) ents including limited detail describing effects of a (4–6 marks) imed example. eveloped statements describing effects of an eart X 5 MARKS WITH NO EXAMPLE) (7 marks) imed example.	hquake.
Level 1 Stateme Uses na More de (NB MA Level 3 Uses na Compre	 (1–3 marks) ents including limited detail describing effects of a (4–6 marks) imed example. eveloped statements describing effects of an eart X 5 MARKS WITH NO EXAMPLE) (7 marks) imed example. hensive and accurate statements including some 	hquake.
Level 1 Stateme Uses na More de (NB MA Level 3 Uses na Compre	(1–3 marks) ents including limited detail describing effects of a (4–6 marks) imed example. eveloped statements describing effects of an eart X 5 MARKS WITH NO EXAMPLE) (7 marks) imed example.	hquake.
Level 1 Stateme Uses na More de (NB MA Level 3 Uses na Compre Answers deaths	 (1–3 marks) ents including limited detail describing effects of a (4–6 marks) imed example. eveloped statements describing effects of an eart X 5 MARKS WITH NO EXAMPLE) (7 marks) imed example. hensive and accurate statements including some 	hquake.
Level 1 Stateme Uses na More de (NB MA Level 3 Uses na Compre Answers deaths injuries	 (1–3 marks) ents including limited detail describing effects of a (4–6 marks) imed example. eveloped statements describing effects of an eart X 5 MARKS WITH NO EXAMPLE) (7 marks) imed example. hensive and accurate statements including some are likely to refer to impacts such as: 	hquake.
Level 1 Stateme Uses na More de (NB MA Level 3 Uses na Compre Answers deaths injuries damage	 (1–3 marks) ents including limited detail describing effects of a (4–6 marks) imed example. eveloped statements describing effects of an eart X 5 MARKS WITH NO EXAMPLE) (7 marks) imed example. hensive and accurate statements including some are likely to refer to impacts such as: 	hquake.
Stateme Level 2 Uses na More de (NB MA Level 3 Uses na Compre Answers deaths injuries damage econom	 (1–3 marks) ents including limited detail describing effects of a (4–6 marks) imed example. eveloped statements describing effects of an eart X 5 MARKS WITH NO EXAMPLE) (7 marks) imed example. hensive and accurate statements including some are likely to refer to impacts such as: to property y 	hquake.
Level 1 Stateme Uses na More de (NB MA Level 3 Uses na Compre Answers deaths injuries damage econom agricultu	 (1–3 marks) ents including limited detail describing effects of a (4–6 marks) imed example. eveloped statements describing effects of an eart X 5 MARKS WITH NO EXAMPLE) (7 marks) imed example. hensive and accurate statements including some are likely to refer to impacts such as: to property y 	hquake.
Level 1 Stateme Uses na More de (NB MA Level 3 Uses na Compre Answers deaths injuries damage econom agricultu	 (1–3 marks) ents including limited detail describing effects of a (4–6 marks) imed example. eveloped statements describing effects of an eart X 5 MARKS WITH NO EXAMPLE) (7 marks) imed example. hensive and accurate statements including some s are likely to refer to impacts such as: to property y ire incations 	hquake.

Pag	je 7	Mark Scheme	Syllabus 🔪	N S	
		IGCSE – May/June 2013	0460	1Day	
(a)	(i)	(Sand) spit/(sand and shingle) spit;		MMN. PapaCall	76.
	• •	Ideas such as: 0.8–1.2 kilometres in length;			100
		50–200 metres wide;			
		curved; attached to land at one end;			
		stretching partly across estuary; made of sand and shingle;			
		below 10m above sea level; East-west/towards North East/orientation (m	ax 1): etc:	[2 × 1]	[2]
			ax 1), etc,		[2]
(1	iii)	Ideas such as: prevailing winds from South West;			
		formed as a result of deposition; longshore drift occurring;			
		movement of materials from west to east;			
		swash moves materials at oblique angle; backwash at right angle;			
		materials move in zig-zag fashion; causes sand spit to gradually extend across	estuary:		
		change in direction of coastline/where it mee		prevent it goi	ng
		straight across estuary; etc.		[3 × 1]	[3]
(i	iv)	Ideas such as:			
		sand dries out; wind picks up particles of sand/wind moves/\	wind blows:		
		from beaches/estuaries/onshore winds;	white blows,		
		particularly at low tide; initially deposited around an obstruction/ston	e/plant;		
		gradual accumulation/builds up over time/em colonized by Maram grass; etc.;	bryo dune to established d	une; [4 × 1]	[3]
		colonized by Maram grass, etc.,		[י ^ ד]	[3]
(b)	(i)	Ideas such as:			
		clay is soft/unconsolidated/not resistant to er stretch of coastline is exposed/not sheltered;			
		strong winds/storms; large waves;			
		lack of protective measures;			
		water seepage/water lubricating lower cliff; e	tc.	[3 × 1]	[3]
	• •	ldeas such as: farmland could be lost;			
		houss/properties could be damaged/destroye			
		and residents may need to evacuate/move/re roads could be damaged;	elocate; (dev);		
		making people travelling along the coast take	e long detours inland (dev);		
		cost of or difficulty of protecting coast; could lead to increase in local taxation/mone	y could not be used for oth	er purposes	
		(dev); cliff erosion could be dangerous/falling rocks	-	-	
		which may put off tourists visiting(dev);			
		high cost of house insurance/difficulty of gett	ing insurance:		

Pa	ge 8	Mark Scheme Syllabus	No. V	
		IGCSE – May/June 2013 0460	1Day	
(c)	Lev	els marking	-all	76.
		<u>el 1</u> (1–3 marks) ements including limited detail describing benefits or problems of living	MMM. Papacal	10
	Use	<u>el 2</u> (4–6 marks) s named example. e developed statements describing benefits or problems of living on a		
	(NB	MAX 5 MARKS WITH NO EXAMPLE)		
	Use Con	<u>el 3</u> (7 marks) is named example. nprehensive and accurate statements describing benefits and proble a, including some place specific reference.	ems of living o	on a
	Ans	wers are likely to refer to impacts such as:		
	tran	ds nomic activities (e.g. salt extraction, fishing, tourism) sport le soil		
		land		[7]
			[Total	: 25
(a)	(i)	Use of water in the home/for household use/for personal use;	[1]	[1]
	(ii)	higher use in Norway/lower in Sudan; 180 litres per person Norway and 50 in Sudan; About 3 times higher in Norway/higher in Norway by 130 litres	[2 × 1]	[2]
	(iii)	Differences such as: more used for washing in Norway; more used for flushing toilet in Norway; more used for washing clothes in Norway; more used for washing dishes and cleaning in Norway more used for cooking/drinking in Sudan; etc.		
		NB Comparison needed (can accept figures for comparison if both set	s are provided).
			[3 × 1]	[3]
	(iv)	Ideas such as: washing machines/dishwashers use lots of water in Norway; norwegian people will have greater access to flush toilets in the home; more water used overall in Norway as more homes have easy access water/less water available in Sudan/can't waste it/scarce so needed for available in Norway or vice versa; more use for drinking in Sudan due to higher temperatures; showers/baths in most homes in Norway so more used for washing; etc.	to piped	9
		NB Comparison not needed	[4 × 1]	[4

NB Comparison not needed

[4 × 1] **[4]**



Level 1 (1–3 marks) Statements including limited detail describing the causes of pollution and/or its effects on the natural environment.

<u>Level 2</u> (4–6 marks) Uses named example. More developed statements describing the causes of pollution and/or its effects on the natural environment.

(NB MAX 5 MARKS WITH NO EXAMPLE)

<u>Level 3</u> (7 marks) Uses named example. Comprehensive and accurate statements describing the causes of pollution and its effects on the natural environment, including some place specific reference.

Answers are likely to refer to impacts such as: Causes: industry sewage agriculture domestic waste

Pa	ge 10	Mark Scheme Syllabus	A V	
		IGCSE – May/June 2013 0460	Da	
	eco: food	cts: king water quality systems I chains acts on aquatic life	PapaCall	
			[Total	: 25]
(a)	(i)	Production of raw materials	[1]	[1]
	(ii)	Ideas such as: emissions/exhaust gases/greenhouse gases/named gases/air pollution; uses energy/uses fuel/depletes fuels/depletes oil; noise pollution from vehicles; deforestation/loss of habitats <u>for road building;</u> increased road kill or examples; etc.	[2 × 1]	[2]
	(iii)	Ideas such as: use less packaging/recycled packaging; transport materials in bulk; produce raw materials close to factory; use renewable energy sources (or example); catalytic convertors/ use fuel efficient engines/bio fuels; conserve energy in factory by using; recycle water; etc.	[3 × 1]	[3]
	(iv)	Ideas such as: build up in atmosphere; let heat/sun`s rays through, bounces/reflects from earth's surface; do not allow heat to escape; insulates/acts like a greenhouse; etc.	[4 × 1]	[4]
(b)	(i)	Ideas such as: Input = energy/chemicals/water/silicon; Process = wafer production/circuit etching/purifying silicon; Output = waste silicon/waste water/silicon chips/waste;	[3 × 1]	[3]
	(iii)	Ideas such as: few alternative energy sources are available or potentially available; some in early stages of development; limited technology in many areas; expense of development/set up; solar limited by environmental factors/lack of sunshine; wave/tidal limited to coastal locations; geothermal to volcanic regions; much of industry/transport geared up to using fossil fuels; government doesn't prioritise renewable energy; etc. [5 × 1 mark or devel	opment]	[5]

Page 11	Mark Scheme	Syllabus 7.0 r
	IGCSE – May/June 2013	0460
(c) Levels ma	ırking	Canne
<u>Level 1</u> (Statement	1–3 marks) is including limited detail explaining location o	of manufacturing/processing industry
	1–6 marks) ed example.	

(c) Levels marking

Level 2 (4-6 marks) Uses named example. More developed statements explaining location of manufacturing/processing industry.

(NB MAX 5 MARKS WITH NO EXAMPLE)

Level 3 (7 marks) Uses named example. Comprehensive and accurate statements including some place specific reference.

Answers are likely to refer to impacts such as: large workforce good transport links cheap land raw materials energy supply water supply (market if relevant)

[7]

[Total: 25]