# MARK SCHEME for the May/June 2013 series

# 2217 GEOGRAPHY

2217/13

Paper 1 (Geographical Themes), 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.

	Page 2		1	Mark Scheme	Syllabus	Paper
				O Level – May/June 2013	2217	13
1	(a)	(i)		area where few people live in a large area/per squ are km/a big area with few people;	uare kilometre/lov	ver than 50 per
			1 ma	ark		[1]
		(ii)	E	ahara Desert, North Africa, Sudan, The Sahel, any astern country; etc. mazon Rainforest, Andes, Atacama Desert, Austral		ntry/Middle
			2@	1 mark		[2]
		(iii)	it is cold there food man there there	s such as: an area of temperate, moderate or gentle climate ; e are good water supplies/sufficient rainfall; can be grown/farming is good; y parts are easily accessible/good infrastructure; e are many resources (or examples); e is lots of employment/lots of factories (or examples flat land; etc.		e not too hot or
			3@	1 mark		[3]
		(iv)	pres lack inad poor over inad over defo lack traffi high spec	s such as: sure on energy supplies (or example); of work; equate food supplies; access to education/not enough; access to health care/not enough; crowded housing/not enough housing; equate water supply/sanitation; ruse of agricultural land/overgrazing; restation/loss of natural vegetation; of space for landfill; c congestion; cost of land; cified pollution problem e.g. air or water pollution (main 1 mark	ax 2); etc.	[4]
	(b)	(i)	mou com cold few isola lack	s such as: ntains/high/steep land/difficult to build on steep slop munications are difficult/roads hard to build on steep climate/snow/long winters; areas of farmland/hard to produce food; ated/long way from services; of industry/work/employment/jobs; of landslides etc.		astructure;
			3@	1 mark		[3]

Page 3	Mark Scheme	Syllabus	Paper
	O Level – May/June 2013	2217	13

(ii) Ideas such as:

there are some habitable areas in valleys; especially those areas on valley floors (dev); some farmers live there; grazing animals in steep slopes/cultivating valley land (dev); some people work in tourist industry; particularly winter sports/skiing; some people like tranquillity/quiet; lack of air/noise/visual/water pollution (dev); (max 1) mining; beautiful scenery/natural beauty; no traffic congestion; people have always lived there; etc.

5 @ 1 mark or development

[5]

(c) Levels marking

Level 1 (1–3 marks) Statements including limited detail which describe population distribution.

<u>Level 2</u> (4–6 marks) Uses named example More developed statements which describe population distribution and/or a labelled sketch map which shows it.

(NB MAX 5 MARKS WITH NO EXAMPLE)

<u>Level 3</u> (7 marks) Uses named example Comprehensive and accurate statements including a labelled sketch map.

Answers are likely to refer to factors such as: inland mountainous coastal river valleys uneven/unevenly spread

[7]

Page 4				Mark Scheme	Syllabus	Paper
				O Level – May/June 2013	2217	13
2	(a)	(i)	On n	nap		
			1 ma	ark		[1]
		(ii)		anhattan ueens		
			2@	1 mark		[2]
	(	(111)	gene incor lowe anor	s such as: erally relationship is inverse/greater % of very poor me is; est mean income highest in Bronx \$46000 and highe naly/mean income highest in Manhattan \$121000 than in Queens/Staten Island etc.	est % in poverty 2	7%;
				can use comparative statements such as higher/h stics.	ighest, lower/low	est if don't use
			3@	1 mark		[3]
	(	iv)	lack man some thus some discr some poor exple adjus	s such as: of qualifications/skills/education/no experience; y cannot speak the language; y are doing low paid jobs; e are unable to obtain employment/not enough jobs are unable to buy homes/live in poor conditions/ove e may have to live away from their families; rimination may occur/racism; e may have entered illegally; access to services/or examples/cannot afford servi pitation by employers; sting to culture; sting to urban life; etc.	ercrowding;	
			4@	1 mark		[4]
	(b)	(i)	smog brea dirt o disco smel acid	s such as: g/poor visibility; thing difficulties/asthma/chest complaints/skin/eye in on washing; ploration of statues/stonework/weathering/corroding lls; rain/global warming; sts put off; etc.		
			3@	1 mark		[3]
		(ii)	vehic conta facto burn	s such as: cle exhausts/emissions/cars/traffic; aining carbon monoxide/sulphur dioxide (dev); ories/power stations/refineries/industry; ing coal/oil/fossil fuels; ase smoke/soot/chemicals (dev);		

Page 5	Mark Scheme	Syllabus	Paper
	O Level – May/June 2013	2217	13

chemical fumes from factories; smoke from domestic fires; smoke from burning rubbish; smoke from nearby forest buyers; not many trees in cities/trees can help reduce air pollution; etc.

5 @ 1 mark or development

[5]

(c) Levels marking

Level 1 (1–3 marks) Statements including limited detail describing the main features of either inner city, outer suburbs or rural-urban fringe.

Level 2 (4–6 marks) Uses named example More developed statements describing the main features of either inner city, outer suburbs or rural-urban fringe.

# (NB MAX 5 MARKS WITH NO EXAMPLE)

<u>Level 3</u> (7 marks) Uses named example More developed statements describing the main features of either inner city, outer suburbs or rural-urban fringe, including some place specific reference.

Answers are likely to refer to factors such as: housing industry open space services transport

[7]

	Page 6		;	Mark Scheme	Syllabus	Paper		
				O Level – May/June 2013	2217	13		
3	(a)	(i)	9C					
			1 ma	1 mark				
		(ii)	р	A: maximum/minimum/wet bulb/dry bulb temperature; precipitation/air pressure/relative humidity/wind direction B: cloud type/cover or amount/wind direction				
			2@	1 mark		[2]		
		(iii)	Ideas such as: use a wet and dry bulb thermometer or hygrometer; use relative humidity table/chart; work out depression of wet bulb (2)/subtract wet bulb from dry bulb (8–6); read off figure at intersection of dry bulb and wet bulb depression figures (where 8 and intersect) etc.					
			Acce	ept: digital (1) hygrometer (1) read off figure displayed (1)				
			3@	1 mark		[3]		
		(iv)	refle so th the s so th so th so th to av	s such as: ct sun's rays/so they are not heated by the sun/ther nat air flows gently around them/they are not affecte screen; ney measure condition of air not ground; ney are not sheltered or shaded by trees/buildings; ney are not affected by concrete; void tampering/damage; ects instruments from rain; etc.				
			4@	1 mark		[4]		
	(b)	(i)	high cons wet/ rainf	s such as: temperatures/25–26°C/hot; stant temperatures/low or small temperature range; high annual rainfall/1700 to 1900mm; all all year; all fluctuates;				
			If ref	er to months for rainfall must refer to at least 2 mon	ths e.g. lowest ar	nd highest; etc.		
			3@	1 mark		[3]		
		(ii)	high whic area sma wet large	s such as: temperatures due to position on Equator; h results in high angle of sun's rays/closer to sur (dev); Il annual range of temperature due to constant over climate due to convectional rainfall; amounts of evaporation; transpiration from abundant vegetation (dev);		rated in a small		

Page 7	Mark Scheme	Syllabus	Paper
	O Level – May/June 2013	2217	13

ascending air results in convection/cooling/condensation; low pressure; etc.

5 @ 1 mark or development

[5]

(c) Levels marking

Level 1 (1–3 marks) Statements including limited detail explaining why deforestation is taking place.

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

## (NB MAX 5 MARKS WITH NO EXAMPLE)

Level 3 (7 marks) Uses named example Comprehensive and accurate statements explaining why deforestation is taking place including some place specific reference.

Answers are likely to refer to factors such as: lumbering mining road building settlements farming

[7]

Page 8		Mark Scheme	Syllabus	Paper			
		O Level – May/June 2013	2217	13			
4 (a) (i)	the r	nquakes and volcanoes noving of the earth's surface ing of plates; etc.					
	1 ma	1 mark [1]					
(ii)	B: A	<ul> <li>A: South American and Nazca/Pacific and Eurasian/Phillipine and Eurasion;</li> <li>B: African and South American/Eurasian and North American/Antarctic and Indo- Australian;</li> </ul>					
	2@	1 mark		[2]			
(iii)	distri alon eg.	s such as: ibution is uneven; g plate boundaries/margins; down centre of Atlantic Ocean/Pacific Ring ericas/Himalayas/southern Europe/South East Asia;		coast of the			
	2@	1 mark		[2]			
(iv)	they plate plate and build	s such as: are closer to plate boundaries; boundaries are lines of weakness; as are moving at either side/moving apart/subduction creating magma/destroying crustal material/melting up of pressure at these points; magma may be forces to reach the surface; etc.	-	ence occurs;			
	4@	1 mark		[4]			
(b) (i)	fires dam colla peop	s such as: ; age to roads/freeways/roads blocked; pse of buildings; ble killed/injuries; age to bridges/collapse of bridges;					
	3@	1 mark		[2]			
(ii)	bette built weig bette bette high bette more	s such as: er quality of buildings/build stronger buildings; using 'earthquake proofing' or examples (max 2) of hts, shock absorbers in foundations; er evacuation procedures; er education re: precautions such as drills (dev); er level of medical care; er technology/more money for recovery; e/better emergency supplies available; e/better rescue teams trained; etc.	e.g. computer cor	ntrolled, counter			
	5@	1 mark or development		[5]			

Page 9	Mark Scheme	Syllabus	Paper
	O Level – May/June 2013	2217	13

#### (c) Levels marking

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

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

# (NB MAX 5 MARKS WITH NO EXAMPLE)

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

Answers are likely to refer to factors such as: plate movements friction pressure build up pressure released

[7]

	Page 10		)		Mark Scheme	Syllabus	Paper
				O Le	evel – May/June 2013	2217	13
5	(a)	(i)	suga	ar beet			
			1 ma	ark			[1]
	(	(ii)		asses; 1 pulp; ;			
			2@	1 mark			[2]
	(i	iii)	Grov	kaging sugar: ving sugar beet: ng lorries:	Secondary Primary Tertiary		
			3@	1 mark			[3]
	(i	iv)	uses raw i weig		of raw materials/heavy or bulky ra re bulky than finished products; essing;	aw materials;	
			is im finisł	possible;	ivered nationwide/market is not ju ot perishable/raw material is perish		ocation next to it
			4@	1 mark			[4]
	(b)	(i)	big/ta mixe chim stora	ed ages/varying a ineys; age tanks/cylindri	s/buildings of varying heights; ages of buildings; ical tanks/towers; terials or examples; etc.		
			3@	1 mark			[3]
	(	(ii)	atmo exha pollu defo kills (imp acid loss	aust fumes from I ition of rivers/gro restation/clearan animals/scares a act on) ecosyste rain; of habitat;	undwater; ce of natural vegetation/plants kill		
			5@	1 mark or develo	opment		[5]

Page 11	Mark Scheme	Syllabus	Paper
	O Level – May/June 2013	2217	13

## (c) Levels marking

# Level 1 (1–3 marks)

Statements including limited detail explaining the factors which have attracted high technology industries.

<u>Level 2</u> (4–6 marks) Uses named example More developed statements describing explaining the factors which have attracted high technology industries.

(NB MAX 5 MARKS WITH NO EXAMPLE)

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

Answers are likely to refer to factors such as: transport environment cost of land proximity to universities for research workers availability of land/space

[7]

Page 12			2	Mark Scheme O Level – May/June 2013	Syllabus 2217	Paper 13	
6	(a)	(i)	Nort	h America/Europe			
	. ,	()	1 ma			[1]	
		(ii)	Nort	orrect order: h America th America a			
				arks if all 3 correct ark if there is one error		[2]	
		(iii)	<ul> <li>i) Ideas such as: as importing energy is very expensive/prices of oil are rising or fluctuating; to reduce import bills/improve balance of payments; too dependent on other nations/need to become more independent/so they encouraged to produce more of their own energy; in order to be able to still have energy supplies in case of war/political disputes; trying to develop/increase renewable energy sources; etc.</li> </ul>				
			3@	1 mark		[3]	
		(iv)	HEP wind wave sola geot	s such as: P possible in some mountainous areas/on rivers/area I power is possible in mountainous/offshore areas/b e/tidal possible in coastal areas; r power where there is plenty of sunshine/by using s hermal power in volcanic areas/by sending water do ark MAX for simple list of 2 or more renewable ener	y building wind tu solar panels in the own into hot rocks	ırbines; eir roofs;	
				1 mark		[4]	
	(b)	(i)	Idea emis carb resp ice c	s such as: ssions of greenhouse gases; on dioxide/sulphur dioxide; onsible for global warming; caps melt; rain; etc.			
			3@	1 mark		[3]	
		(ii)	near to re bulk avai for u rail/r for c lots for la solid	s such as: coalmines/coalfields; duce transport costs of coal (dev); y fuel to transport (dev); lability of water/close to river/lake; se in cooling processes (dev); oad transport; oal deliveries/taking waste away (dev); of or plenty of land/room/open space; arge building/high generating capacity (dev); l foundations; to weight of power station/cooling towers (dev);			

Page 13	Mark Scheme	Syllabus	Paper
	O Level – May/June 2013	2217	13

close to of population; for a workforce; flat land; cheap land; etc.

5 @ 1 mark or development

[5]

(c) Levels marking

<u>Level 1</u> (1–3 marks) Statements including limited detail describing problems of use of fuelwood for people and/or natural environment.

Level 2 (4–6 marks) Uses named example More developed statements describing problems of use of fuelwood for people and/or natural environment.

# (NB MAX 5 MARKS WITH NO EXAMPLE)

Level 3 (7 marks) Uses named example Comprehensive and accurate statements describing problems of use of fuelwood for people and natural environment, including some place specific reference.

Answers are likely to refer to factors such as: local atmospheric pollution time take to collect wood health problems deforestation soil erosion

[7]