

Cambridge International Examinations

Cambridge Ordinary Level

GEOGRAPHY 2217/23

Paper 2 Investigation and Skills

May/June 2016

MARK SCHEME
Maximum Mark: 90

Published

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 2016 series for most Cambridge IGCSE[®], Cambridge International A and AS Level components and some Cambridge O Level components.

® IGCSE is the registered trademark of Cambridge International Examinations.



Г	age A	_	Wark Scheine	Syllabus	Papei
			Cambridge O Level – May/June 2016	2217	23
			Section A		
	(a)	(i)	Passenger		[1
		(ii)	Quays		[4
			Lighthouse Wide channel		
			Sheltered harbour / not facing the open sea		
			Car park Road access		
			Noau access		
	(b)	(i)	958 238		[1
		(ii)	9		[1
	(c)		rts in Glenicmurrin Lough		[5
			ws S / SSW / SW urts at 28m		
		Ge	ntle gradient / calculated		
			anders outaries		
			aiding / island		
			der road / R336		
			ns north-west ters sea in Clynagh Bay		
	(d)	(i)	В		[1
		(ii)	R336 is 13–16mm from left		[3
			Cashla River is 49–52mm from left Third class road is 71–74mm from left		
		(iii)	The section line does not pass through it		[1
	(e)	Мο	st within 2km of coast		[3
	(-)	Alo	ng roads / linear pattern		į.
		Lov	ver land		

Mark Scheme

Page 2

Flatter land

Dispersed / scattered / spread out Avoid lough shores and edge of coast Syllabus

Paper

P	age 3	3	Mark Scheme	Syllabus	Paper
			Cambridge O Level – May/June 2016	2217	23
2	(a)	(i)	Population is decreasing Death rate is higher than birth rate		[1]
		(ii)	Scattered Large area in E / SE / bordering Myanmar and India Areas close to Dhaka / centre of country Islands in delta / Bay of Bengal Islands in Brahmaputra At Ganges and Brahmaputra confluence Scattered areas in west Scattered areas in north		[4]
	(b)	Y is	s just north of Dhaka s at extreme SE inland s on NW of eastern projection		[3]
					[Max. 8]
3	(a)		nt Michel is to the west / vent is to the east 2.8km / less than 3km apart		[2]
	(b)	30 <u>c</u> Vol	h (risk) e <u>m</u> canic bomb canic mud flow		[4]
	(c)	(i)	Delices		[1]
		(ii)	SE/S		[1]
					[Max. 8]
4	(a)	Stra Bra Clo Bro Pal Gra	l (trees) aight trunks nching only at top / canopy se together / dense ad leaf		[4]

Pag	e 4	ļ	Mark Scheme	Syllabus	Paper
			Cambridge O Level – May/June 2016	2217	23
(I	(b) Sparse / spread out / few plants Low growing / smaller Thorny / waxy Fleshy / succulent / stems store water Rapid life cycle Deep rooted Cactus / other named Small leaves Few leaves				[4]
					[Max. 8]
5 (a	a)	(i)	Africa		[1]
		(ii)	Thailand		[1]
	((iii)	Correct for Brazil Correct for Paraguay		[2]
(i	b)	(i)	Water Air / dust		[2]
		(ii)	Process is more mechanised Machines need cooling Machines need cleaning Processing on a larger scale Demand has increased / more is produced Higher standard of processing required		[2]
					[Max. 8]
6 (a	a)	(i)	Correct completion of graph		[1]
		(ii)	14(%)		[1]
	((iii)	Cycling and golf		[1]
	((iv)	Museums / galleries		[1]
(i	b)	(i)	Boating Horse riding		[2]
		(ii)	No – these were not options on the Scottish survey No – not done by the people who answered the Scottish survey		[1]
	((iii)	Scotland data is percentage The graph scales are different The units are different		[1]

Page 5	Mark Scheme	Syllabus	Paper
	Cambridge O Level – May/June 2016	2217	23

Section B

7 (a) (i) Area served by a settlement or service $2 \checkmark = 0$

[1]

(ii) Bigger settlements:

Provide high order services / high order goods

Provide comparison goods / big name shops or example

Have many / larger variety of services / big choice / lots of shops / larger stores / more shops / more services

Provide specialised services / specialised goods

Provide specific functions e.g. administration, business, tourism, university, bank / people go to work there

Have easy access / good road or rail links / good transport links

There are few big settlements

People travel further / long way to buy the goods/infrastructure

[3]

(b) (i) Organise:

When / at what time to do the counts / how long to do each count / start at same time Number of students per group / students get into groups / decide which students go to each counting point

How many times to do the counts per day / e.g. do it 3 times in the day Whether to do the counts on more than one day / repeat on a different day Make a recording sheet / recording table

Carry out:

Use tally method / 'clicker'

Use a watch or timer to time the counts / time when they start counting Separate tasks in the group e.g. two students do each count / count people going in different directions / one student counts and one students records

Credit ideas in either section and do not ignore ideas if they are in the 'wrong' section. No reserve mark for either section

If answer refers to a traffic count credit to 3 marks maximum for relevant points

[5]

Page 6	Mark Scheme	Syllabus	Paper
	Cambridge O Level – May/June 2016	2217	23
(ii)	Plot bars at 212 for location 3 at Spandau Arcaden and 90 for locat Strasse	tion 2 at Pic	helsdorfer
	Ignore shading	2 @) 1 [2]
(c) (i)	Comparison goods are usually more expensive than convenience $Q = Q = Q$	goods	[1]
(ii)	Completion of pie graph for Pichelsdorfer Strasse Convenience = 80% and comparison = 20% 1 mark for dividing line, 1 mark for shading		[2]
(iii)	Yes/hypothesis is true - 1 mark reserve		
	More people and more shops selling comparison goods/shops mai goods at Spandau Arcaden OR less people and less shops selling comparison goods/shops se goods at Pichelsdorfer Strasse	-	
	1 mark for paired data from both centres 76% or 95 comparison shops and 240 pedestrians at Spandau Arc comparison shops and 75 pedestrians at Pichelsdorfer Strasse Need all 4 figures to get credit (no tolerance on these figures)	aden and 2	0% or 14
	Possible alternatives to these 4 figures are: 3 times more pedestrians or 165 more people at Spandau Arcader 4 times more or 56% more comparison shops at Spandau Arcader		[3]
(d) (i)	Answer may be too vague/will not provide a distance travelled/may 'Berlin'	just get the	answer
	Question is too intrusive/too personal/too private/people will not giv address/people will not answer <u>because</u> e.g. afraid of burglary	ve their 2 @) 1 [2]

[1]

(ii) Shading 4% in Reinickendorf

Page 7	Mark Scheme	Syllabus	Paper
	Cambridge O Level – May/June 2016	2217	23

(iii) Advantage:

Shows the pattern

Shows similar areas within a category /groups areas together Can compare areas/compare percentages

Disadvantage:

May hide differences within a borough

Pattern which is displayed may be affected by selection of categories for shading Not specific/exact values/not accurate numbers are shown

Easy to read/easy to see/shows where people come from/key intervals are too big

1 + 1 [2]

(iv) Hypothesis is correct – 1 mark reserve

OR People travel further to Spandau Arcaden than Pichelsdorfer Strasse Spandau Arcaden has higher percentages coming from boroughs which are further away

Pichelsdorfer Strasse has higher percentages coming from boroughs which are nearby Spandau Arcaden sphere of influence extends over all Berlin **but** Pichelsdorfer Strasse sphere of influence doesn't

OR Spandau Arcaden sphere of influence extends over all 12 boroughs **and** Pichelsdorfer Strasse sphere of influence extends over 6 boroughs

Credit paired data to 1 mark maximum (not reserve) for boroughs with 0% shopping at Pichelsdorfer Strasse

e.g. Lichtenberg = 4% at Spandau Arcaden and 0% at Pichelsdorfer Strasse

[4]

(e) (i) Completion of key in the following order

- shops selling convenience goods
- shops selling comparison goods
- entertainment or leisure

[1]

(ii) Buildings shaded as:

Furniture store = comparison

Cinema = entertainment

Bar = entertainment

Photography = comparison

Chemist (drug store) = convenience

General store = convenience

Credit 1 or 2 correct = 1 mark

3 or 4 correct = 2 marks

5 or 6 correct = 3 marks

If key is completed incorrectly in (i) ignore the candidate's key and credit as above. [3]

[Total 30 marks]

Pa	ge 8		Mark Scheme	Syllabus	Paper
			Cambridge O Level – May/June 2016	2217	23
8	(a)	(i)	Wind sock/streamer/thread attached to pole/throw grass into the ai	r/wet finger/	/flag/

ribbon.

Use compass to see direction (wind is blowing)/NESW

[2]

(ii) Waves approach the beach $2 \checkmark = 0$

[1]

(iii) Prevailing wind causes waves to approach at an angle to the shore Swash/waves at an angle/in same direction as prevailing wind Backwash/waves back out at 90°/straight back/perpendicular Zig zag motion moves material along the beach/along the coast

[4]

(b) (i) Plot 0.88 m on north side of groyne C

[1]

(ii) Do more than one measurement/repeat the measurements at each groyne and calculate average

Do measurements at more groynes Get another student to check measurement

2@1

2

Page 9	Mark Scheme	Syllabus	Paper
	Cambridge O Level – May/June 2016	2217	23

(iii) Hypothesis is **true** – 1 mark reserve (✓HA)

Beach OR sand is higher on south side/lower on north side

OR: Height of groyne above beach is greater on north side/less on south side

Credit paired data for 1 mark

2 statistics from groyne A/B/C or average of all three groynes to compare north and south sides.

Statistics must be in correct context – either height of groyne above beach or height of beach

Groyne	Height of groyn beach (m)	e above
	South side	North side
Α	0.45	1.03
В	0.64	1.15
С	0.48	0.88
Average	0.52	1.02

Groyne	Height of beach	n (m)
	South side	North side
А	1.55	0.97
В	1.36	0.85
С	1.52	1.12
Average	1.48	0.98

[3]

(c) (i) Sandy Bay and Hartley Links

[1]

(ii) Newbiggin, South Beach, Collywell Bay (any two)

[1]

Page 10	Mark Scheme	Syllabus	Paper
	Cambridge O Level – May/June 2016	2217	23
(iii)	Different land uses along coast/in the area (not just examples) Higher land value in some areas/land is worth more in resort than the Holiday resort needs protecting/ beach encourages tourism Shops/businesses need protecting Houses/residential area need protecting Main road needs protecting/road near coast Credit these land uses to 2 marks maximum – must have idea of thave defences'		eting' or
	Caravan site can be moved/is not worth protecting/not valuable land Farmland is not worth protecting/cattle can be moved/not valuable Credit these land uses to 1 mark maximum – must have the idea protecting' or reason for not protecting them	land	n [4]
(d) (i) If not aware students did not continue with questionnaire/questionnaire is a defences/wasting their time/meaningless to ask people who did not know			ıt sea [1]
(ii)	Age/age group Gender Date of survey/time of survey Location of survey	2 @	<u>.</u> 1 [2]
(e) (i)	Completion of divided bar graph for unsightly coastal defences No opinion = 18%, disagree = 20%, disagree strongly = 17% 2 marks for dividing lines at 63% and 83%, 1 mark for shading		
	2 marks maximum if sections in wrong order		[3]

Page 11	Mark Scheme	Syllabus	Paper
	Cambridge O Level – May/June 2016	2217	23

(ii) Evidence such as:

Most or more than half or 88 people agree or say coastal defences are needed/1 person says not needed

Most or more than half or 69 people agree or say beaches have been improved by coastal defences/less than half or 26 people say not improved

45 people say defences are unsightly/37 people say not unsightly/more agree than disagree they are unsightly

Less than half or 15 people say spend money on other things/most or more than half or 71 people say spend money on defences

Credit 1 mark maximum for evidence about each statement

[3]

(iii) Most/72 people want more defences built **but** few/13 are willing to pay **OR** most people want defences but do not want to pay for them Most/87 people want someone else/EU/government/tourists/local council to pay

[2]

[Total 30 marks]