#### **CAMBRIDGE INTERNATIONAL EXAMINATIONS**

**Cambridge Ordinary Level** 

# MARK SCHEME for the October/November 2015 series

# **2217 GEOGRAPHY**

2217/23

Paper 2 (Investigation and Skills), maximum raw mark 90

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.

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## Section A

1

(a) 432/3 886/7	[1]
(b) (Medium / dense) bush	[1]
(c) (i) Power line	[1]
(ii) Wide tarred road	[1]
(iii) Island / braiding	[1]
(iv) Reservoir	[1]
(v) Arrow from west to east	[1]
(d) (i) 340–345°	[1]
(ii) 2200–2400 metres	[1]
(e) 45 (metres) 102	[2]
(f) Chipiso 58–61 mm from left Mazowe 28–32 mm from left Pote 74–77 mm from left Southern edge of cultivation 87–90 mm from left Extent of cultivation between river and southern edge indicated	[5]
(g) High / hilly in the south / lower in north Steeper in the south / gentler in north Heights to 1080 m Lowest 940 m Isolated hill Valley	
Rivers in east flow east Rivers in west flow north Tributaries Dam	
Reserve 1 for each of relief and drainage	[4]
	[Max 20]

P	age :	3	Mark Scheme	Syllabus	Paper
			Cambridge O Level – October/November 2015	2217	23
2	(a)	(i)	February August		[2]
		(ii)	Dec / Jan / Feb / Mar		[1]
	(b)	(i)	Boating		[1]
		(ii)	Museum Nightclub Cable car		[1]
	(c)	(i)	<ul> <li>X – Goes to top of ski run / goes to high point for better views</li> <li>Y – Goes to high point for better views</li> <li>Z – Cheaper to build as shorter / lower / fewer towers</li> </ul>		[1]
		(ii)	<ul><li>X – Construction will damage wildflower meadow</li><li>Y – Disturb nesting site for birds</li><li>Z – Doesn't lead anywhere interesting</li></ul>		[2]
					[Max 8]
3	(a)	1 in	a E / SE (Asia) n S America / Brazil stly within tropics		[3]
	(b)	(i)	Pakistan / USA		[1]
		(ii)	China / Philippines / Indonesia		[1]
		(iii)	Ideas relating to too many people – high population / refugees Ideas relating to not enough land – soil erosion / land used for cash Ideas relating to temporary need – failure of harvest / hazard Demand for different variety / quality / type	crops	[3]
			7 1 3 9F		[Max 8]

P	age 4	4	Mark Scheme	Syllabus	Paper
			Cambridge O Level – October/November 2015	2217	23
4	(a)		ove river / lake level / dry point site / above flooding gentle slope / sloping		
		Val	ley side / on hill		
		Alo	ng road / railway		[2]
	(b)	Def	rense		
	(6)	Wa	ter supply from river / lake		
			ove flood level / floodplain sy to build on gentle slope		
		Wo	od for building / fuel nd for farming / food supply		
		Fis	n from river		
			ctricity nsport by river / lake		
			nsport route across valley		[4]
	(c)		mers – loss of land / more people to leave gates open, etc.  urists – spoil view / ruin country walks		
		En۱	vironment group – water pollution increase / wildlife disturbed / trees		[0]
		LUC	al people – overcrowding of facilities / noise and construction disrup	uive	[2]
					[Max 8]
5	(2)	Lin	e at 32%		
3	(a)	Line	e at 42%		
		Sha	ading as in key		[3]
	(b)	(i)	Oil		[1]
	( - )	(ii)	Russia		[1]
					ניז
		(iii)	Both have coal as highest Both have oil as second highest		
			Both have 1% nuclear  Both have 5% renewable		[3]
			Dotti flave 3 /0 fellewable		
					[Max 8]
6	(a)	(i)	-0.17°C to −0.2°C		[1]
		(ii)	550		[1]
		(iii)	1.175 to 1.2°C		[1]
	,	(''' <i>)</i>			ניז
	(b)	(i)	600–800		[1]
		(ii)	1400–1600		[1]
		(iii)	1400–1600		[1]
		•			

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(c) Melting of Arctic ice / ice caps / glaciers
Rise in sea level / average tide level
Extreme tides / spring tides / storm surges more likely to overcome sea defences
Sea expands

[2]

[Max 8]

			Section	В		
7	(a)	(i)	С			[1]
		(ii)	Clinometer, ranging poles If more than two answers, –1 for each inc	orrect answer	2 @ 1	[2]
		(iii)	Lay tape measure out along transect line Put poles at break of slope / at equal or so Measure / mark distance between ranging Poles must be vertical Sight other ranging pole at top / agreed how Read / measure / record angle – need ref Move poles across/ along profile / transect	g poles eight / line up erence to <b>clinomet</b>	er	[4]
		(iv)	Description	Turns of durns	7	
			Description	Type of dune	- -	
			Oldest dunes which are furthest inland	Grey (dune)		
			Most recently created dunes	Embryo (dune)		
			Tallest dunes	Yellow (dune)		
						[1]
		(v)	Obstacle / plant on / behind the beach Wind picks up sand / blows sand / carries Friction with obstacle/plant slows down w Sand is deposited around obstacle / traps This increases size of obstacle so deposit Plant roots hold dune together	ind sand		[3]
	(b)	(i)	Put quadrat / grid on ground / alongside to Estimate percentage of quadrat / count no cover Do more than one measurement <b>and</b> calcon Record results / write down measurement	umber of squares woulate the average		[3]

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Syllabus

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2@1

[2]

Paper

23

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(ii) Plot 60% cover at 190 m, 75% cover at 210 m

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(iii)	Hypothesis is <b>correct</b> / true / generally / mostly /partially correct – reserve e.g. Percentage of cover increases from 20% at 10 m / site 1 to 950 290 m / site 15 – <b>need 2 percentages and 2 distances or site nu</b> Exception / anomaly to the pattern at: 30 and 50, 110 and 130, 150 210 and 230, 290 and 310 m (or sites) e.g. percentage of cover is 30% at 30 m / site 2 and 25% at 50 m / <b>need 2 percentages and 2 distances or site numbers</b> OR: % is <b>higher</b> at 30 m or site 2 than at 50 m or site 3 / <b>lower</b> at 50 site 3 than at 30 m or site 2	% at I <b>mbers</b> I and 170, site 3 –	
	Need 1 supporting set of statistics and 1 anomaly set of statistics		[3]
(c) (i)	Photograph / take sample / sketch / written description of vegetation Look up in book / internet / vegetation chart Ask ranger / teacher / expert 2 @		[2]
(ii)	May be other different types of vegetation / will not see variety or d Main type of vegetation may only just be over 50%	iversity	[1]
(iii)	Credit any two changes from Table 1. Need 2 vegetation types and description of position  Accept distance or site number.  e.g. Sea couch grass at 10 m / site 1 and lyme grass at 30 m / site e.g. Sea couch grass and lyme grass occupy area closest to sea a occupies large area behind it  e.g. 1. Sea couch grass 0–30 m away  2 Gorse / heather 270 m away from sea = 1 mark	2	
	No Hypothesis mark 2 @	) 1	[2]
(d) (i) (ii)	Tourists walking / trampling / cycling / having a picnic / dropping litt pulling up plants / driving on dunes Kill / damage / destroy vegetation / vegetation dies / vegetation covvegetation  Notice boards / visitor centre / signs / notices / leaflets to educate / Marked / signed footpaths / build or make a footpath Boardwalk across area Fence off / rope off areas / restricted access Barriers to prevent vehicle / cycle access / create car park Rangers to monitor / advise tourists	ver decrease	es / ruins [2]
	Charge admission to dunes Designate picnic sites / ban barbecues or picnics Litter bins		[4]

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**Total 30 marks** 

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#### 8 (a) (i) Central Business District

[1]

[1]

(ii) Factory

## (b) (i) Ideas such as:

Choose a variety of people / choose people of different age or gender

Don't just ask people you know

Introduce yourself / explain purpose of survey

Have a system for choosing people such as every 10th person / random /

have a sampling method

Accept if people don't want to answer or fill it in / don't argue / be polite / thank them

Don't approach people in a big group / work in pairs / don't work alone

Don't block pavement / doorway

Go to different parts (of the CBD) / don't all go to the same area

[3]

(ii) 15–30 (or reasonable alternative between 30–40)

31 (or reasonable alternative) – **60** 

Accept reasonable ranges if not overlapping

2@1

[2]

(iii) Divided bar graph completion

1 mark for dividing lines at 71 and 91

1 mark for shading

[2]

(iv)

Opinion	Number of answers	Weighting	Score
Agree strongly	31	+2	+62
Agree	40	+1	+40
Disagree	20	-1	-20
Disagree strongly	9	-2	-18
Total score			+64

1 mark for 4 correct scores

1 mark for correct total = 64

Must have the + and – symbols

[2]

(v) Answer from **b(iv)** plotted accurately (ecf)

[1]

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## (vi) Hypothesis is **correct** / true / mostly true – 1 mark reserve (√HA)

Table 2 / Fig. 7

Over half agreed with 3 of the 4 statements

Majority agreed that shop has brought more goods and services / attracts people to town more often / has provided more jobs

Less than half agreed / more than half or most disagreed that shop has increased competition

Credit data if added together or paired for 1 mark max

e.g. 64 agree that the store has brought more services (accept statement 1)

e.g. 31 strongly agree and 40 agree / 71 agree that shop attracts people to the town centre (accept statement 2)

Fig. 8

All statements have positive scores

People are most positive about jobs created

People are least positive about competition to other shops

Credit data for 1 mark max

e.g. score / index for brought goods and services = 63 /

shops attract people = 64 / provides jobs = 140 (accept reference to statements 1, 2, 3, 4)

average score for all 4 statements is 68.75

[4]

## (c) (i) Scores may vary between students:

Carry out pilot study

Work in groups and discuss / agree / check score

Calculate the average score from a group of students

NOT: compare score with other groups

## Score may vary at different times:

Make sure surveys are done at same time / agree a time for survey

[2]

#### (ii) Bar drawn to 22

[1]

## (iii) Disagree with conclusion / students' decision / hypothesis is false – 1 mark reserve (√HA)

New town has a **positive** impact (on the environment)

Higher EQ results or score / positive descriptions / scores over 21 **are** nearest to new shop / sites C or D

Lower EQ results or score / negative descriptions / scores below 21 **are** furthest from new shop / sites B or E

Credit contrasting paired data of **total** scores for 1 mark maximum e.g. C scores 27 and E scores 17, D scores 30 and B scores 14,

Points C/D are nearer the new shop and have higher scores than points B/E which are further away = 2 marks

If no decision credit evidence

[4]

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# (d) (i) Recording sheet should include:

Street name / location / sample point / site / survey point

Number of pedestrians / tally label / example of tallying method (NOT blank space)

Total number

Time / day / date [3]

#### (ii) 2 or 3 students / group go to each survey point

All start the count at the same time / synchronise watches

All count for the same length of time / finish at the same time / 30 mins

Do more than one count in a day / do it on several days or on two different days / do one count in the morning and one in the afternoon

Note down / record / count people passing the point / one person counts and one person writes down

Fill in the recording sheet / fill in the tally / use a clicker

[4]

[Total 30 marks]