UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Ordinary Level

MARK SCHEME for the October/November 2011 question paper for the guidance of teachers

2217 GEOGRAPHY

2217/21

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 must be read in conjunction with the question papers and the report on the examination.

Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

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Section A

1	(a)	(i)	104755	[1]
		(ii)	SE	[1]
	(b)	(i)	1500–1700	[1]
		(ii)	206m/206.72m/207m	[1]
		(iii)	83–95	[1]
	(c)	Bot Mai Mai	h run NW–SE h have gentle gradient in A road is straight but motorway is curved in A road is through settlement but motorway by-passes/through plantation in A road has many junctions but motorway has few junctions	[3]
	(d)	(i)	Water Tank	[1]
		(ii)	Waterfall	[1]
		(iii)	Chimney	[1]
		(iv)	Line of trees	[1]
		(v)	Cane track	[1]
	(e)	(i)	Meanders Tributaries Variable width Dam Flows towards E or SE	[3]
		(ii)	Flooding Good soil has been washed away Steeper land Scattered trees/scrub occupy the land	[2]
	(f)	Nuc	ear/along roads cleated at Rose Belle attered at Deux Bras/Ruisseau Copeaux	[2]

[Max 20]

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			GCE O LEVEL – October/November 2011	2217	21
2	(a) (i)	Ken	wa		
_	(a) (i)		zania		[2]
	(ii)	2			[1]
	(iii)	Can	neroon/Gabon		[1]
	(iv)	Djib	outi, Ethiopia and Kenya		[1]
	(b) (i)		rect divisions on Fig. 4. c 1 for no labels		[0]
		IVIAX	THO HO labels		[2]
	(ii)	Grea	at Horn of Africa		[1]
					[Max 8]
3		_	tle slope in foreground untains/steep slopes in background		[2]
	Pa	rt) roa th/trac			[3]
	(c) (i)	(Sec	condary) school/teachers' houses		[1]
	(ii)	Prim	rts Ground <u>nary</u> school		
		Sho Mill	p		[2]
					[Max 8]
4	12 11 6	ugust	February and September		
	Dry/des Southe				ΙΩΊ
	Southe	111			[8]
					[Max 8]

Mark Scheme: Teachers' version

Syllabus

Paper

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<u> </u>			002 0 22122 00(000)//(000)	
5	(a)	(i)	Biological weathering – plant growth/mechanical weathering Physical weathering – freeze-thaw/frost action	[2]
		(ii)	Water freezes and expands/root grows and expands Pushes crack wider/deeper	[2]
	(b)		es labels e showing positive relationship	[2]
	(c)		ease of heat increases local temperatures	
			bal warming d rain	[2]
				[Max 8]
6	(a)	(i)	Completion of water Completion of wind	[2]
		(ii)	1987–1992	[1]
		(iii)	Water	[1]
	(b)		st wind speed	ro.
		LOV	v rainfall	[2]
	(c)		nting grass or trees/permanent vegetation cover	ro1
		Mu	Ich tillage	[2]
				[Max 8]

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	Page 5		5	Mark Scheme: Teachers' version	Syllabus	Paper
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				Section B		
7	(a)	(i)	Area	a served by a settlement or service		[1]
		(ii)	Num Spec Spec Ease Sma	I / low order of services provided Inber / variety of services provided / more services Icialised services available Icific functions of different settlements Icie of access to settlements / transport links Itilier centres means more competition Inparative examples of services with different sphere of	influence	[3]
	(b)	(i)	Q2: Q3:	Should only be asking students at school so superfluo waste of time Too vague to get specific and consistent answers options Closed question, very specific answer / give options o how travel to school / sometimes	/ too personal	/ should give
		(ii)	Enou 10%	dit explanation. No mark for 'Yes' ugh responses to be able to test the hypotheses / to co of population is a representative sample te of time / no time to do more	ompare / reliable	[2]
	((iii)	Sele Sele 1 m	registers / school data base to sample every tenth stu- ect students from different class / year group / ages ect equal numbers of male / female students ark for naming sampling method – random, system cription		- must link to [2]
	(c)	(i)	Inse	rt data (7) for Feng Tai into table – both tally and total	for mark	[1]
		(ii)	Inse	rt seven symbols into Tong Zhou		[1]
	((iii)	Shad	de Xi Cheng (15 – 19 category)		[1]
	((iv)	Show Easy Can Easy Easy	ogram: ws individual detail of numbers / exact number y to read off individual numbers / easy to count / identif see overall pattern of distribution y to compare numbers y to understand / clear / simple / detailed / visual ropleth map: ws overall pattern of distribution / compare areas	y exact number	

4@1

[4]

Links similar areas within a category / groups Can be used to compare large numbers

Clear visual impact / shading categories in key

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(v) No / disagree / no clear pattern / true to some extent that numbers decrease with distance – reserve

Some areas away from school are in high category

Some areas near to school are in low categories

General pattern is more students come from north & east, and less come from south & west, rather than distance away from school

e.g. Ping Gu (district 12) has 15 students / e.g. Chao Yang (district 7) has 8 students

Data to 1 mark max – reserve

[4]

(d) (i) Completion of table – 30%

[1]

(ii) Pie graph completion – bus and car

1 mark for dividing line

1 mark for shading

[2]

(iii) Larger percentage / most students travel to school by bus / 5% more travel by bus Only 31% travel by car / 39 out of 125 travel by car / 69% don't travel by car / more travel by other methods than car

Almost as many (30%) travel by train

First part of hypothesis is correct – there are 5 ways that students travel to school

No credit just for percentage or figures without interpretation

[3]

(iv) Additional questions in questionnaire such as:

How far is your home from school? / how far do you travel to school?

How long does it usually take you to travel to school? / average time to travel to school Why do you use your named method of travel?

Do you always use the same method of travel? / more than one method of travel Which route do you take to school?

Do students travel alone or with others

Could investigate if there is any relationship between where students live and their method of travel

Possibly linked to bus / train services

Could investigate links between gender / age & methods of travel

[2]

[Total: 30]

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` '		neter / maximum-minimum thermometer dry (bulb) thermometer / hygrometer			[2]
`´ To	(b) To test the measuring equipment To record weather conditions before & after investigation / control reading To show the changes in weather conditions / compare results with other days				
(c) (i)	Labe e.g. Expl Jar s Wate Notii Rea Emp Anei Con Show	gram = 1 mark Funnel placed into jar / open container used to collect anation = 2 marks stood firmly in ground / open ground / away from trees er poured into measuring cylinder ng / recording water level in measuring cylinder / jar ding taken every 4 hours period of time / fixed period of ty container after use mometer: cups / spoons revolve in the wind / spins / tu nected to meter which counts number of revolutions per ws reading as kms or miles per hour / reading from screen counts are provided as a surface area to catch the wind (soming the provides large surface area to catch the pr	/ fastened to of time rns er minute reen from)	_	[4]
(iii)		x pointer set to previous / local weather station reading er pointer moves to show current AP & index pointer sh		•	[2]
(iv)	Okta	as / eighths			[1]
(d) (i)	1018	3			[1]
(ii)	Rain	fall bar to show 3 mm at 11.00			[1]
(iii)	19.0	apletion of line graph to show atmospheric pressure 0 = 1012, 20.00 = 1015, 21.00 = 1018 ark for plots, 1 mark for joining lines			[2]
(iv)		d direction: S d speed: 20 km/hr (10 mm)		2 @ 1	[2]
(v)	Cum	nulus cloud with correct shape & light or no shading			[1]
(vi)	Sha	de in 7 oktas (any 7 segments)			[1]

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- (e) (i) As atmospheric pressure decreases / low, rainfall increases / high, / as atmospheric pressure increases / high, rainfall decreases / low, / negative / inverse relationship e.g. AP at 1012 rainfall is 0/1 mm, AP 1022 rainfall is 0 mm AP at 992 rainfall is 5 mm, 998 rainfall is 3 mm

 Credit up to 2 marks for data (need mm)
 - (ii) As atmospheric pressure decreases / low, wind speed increases / high, as atmospheric pressure increases / high, wind speeds decrease / low Atmospheric pressure at 1022 wind speed is 5 km/hr, OR Atmospheric pressure at 1018 wind speed is 3 km/hr, OR Atmospheric pressure at 1012 wind speed is 8/20 km/hr,

Atmospheric pressure at 998 wind speed is 26 km/hr, OR Atmospheric pressure at 992 wind speed is 43 km/hr Allow tolerance of 1 on both sets of figures Credit up to 2 marks for data (need km/hour)

As atmospheric pressure falls winds change from SE to S to SW / towards west As atmospheric pressure rises winds change SW to S to SE / towards east

[Total: 30]

[4]