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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	GCE O LEVEL – October/November 2011	2217	21					

Section A

(a) (i) 104755	[1]
(ii) SE	[1]
(b) (i) 1500–1700	[1]
(ii) 206m/206.72m/207m	[1]
(iii) 83–95	[1]
(c) Both run NW–SE Both have gentle gradient Main A road is straight but motorway is curved Main A road is through settlement but motorway by-passes/through plantation Main 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) Linear/along roads Nucleated at Rose Belle Scattered at Deux Bras/Ruisseau Copeaux	[2]

[Max 20]

1

	Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
		GCE O LEVEL – October/November 2011	2217	21
2	(a) (i) K	enya		
_		anzania		[2]
	(") 0			
	(ii) 2			[1]
	(iii) C	ameroon/Gabon		[1]
	(iv) D	jibouti, Ethiopia and Kenya		[1]
		orrect divisions on Fig. 4. lax 1 for no labels		[2]
	(ii) G	reat Horn of Africa		[1]
				[Max 8]
3		entle slope in foreground nountains/steep slopes in background		[2]
	(b) Fence (Dirt) (Path/t (Electi	road		[3]
	(c) (i) (S	Secondary) school/teachers' houses		[1]
	., S <u>P</u>	hurch ports Ground <u>rimary</u> school		
		hop Iill		[2]
		····		
				[Max 8]
4	12 11 6	nd February est and September		
	Dry/desert			
	Southern			[8]
				[Max 8]

Mark Scheme: Teachers' version

Syllabus

Paper

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	Page 4	wark Scheme: reachers version	Syllabus	Paper		
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5		ogical weathering – plant growth/mechanical weatherin sical weathering – freeze-thaw/frost action	ng	[2]		
		er freezes and expands/root grows and expands hes crack wider/deeper		[2]		
	(b) Axes lab Line sho	els wing positive relationship		[2]		
	(c) Release	of heat increases local temperatures				
	Global w Acid rain			[2]		
				[Max 8]		
6		npletion of water npletion of wind		[2]		
	(ii) 1987	7–1992		[1]		
	(iii) Wat	er		[1]		
	(b) Fast win					
	Low rain	fall		[2]		
	` '	grass or trees/permanent vegetation cover				
	Mulch till	age		[2]		
				[Max 8]		

Mark Scheme: Teachers' version

Syllabus

Paper

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	Page 5				Mar	k Sche	me: 1	Teach	ers' ve	rsion		Syl	labus	P	aper
				(CE O	LEVEL	- Oct	tober/	Novem	ber 20	11	2	217		21
								Sec	tion B						
7	(a) (i)	Area	a serve	ed by a	settlem	nent or	servi	се						[1]
	(i	i)	Num Spec Spec Ease Sma	nber / vicialise cific fulled to continue the continue to continue the	variety of service notions coess to entres notions	f services ava of settler of diffe settler neans n	ces pr ilable erent s nents nore c	covided ettlem / trans compe	d / more nents sport lin tition	ıks	ces ohere of	influer	nce		[3]
	(b) (i)			d only b of time		ng stu	dents	at scho	ol so si	uperfluc	ous que	estion / ob	ovious	answer /
			Q2: ⁻	Too v	ague t		specifi	ic and	l consi	stent a	nswers	/ too	personal	/ sho	ould give
			Q3: (d quest	ion, ver school				give o	ptions c	of meth	ods of tra	ivel / a	sk about [3]
	(i	•	Enou 10%	ugh re	sponse pulatior	n. No mes to be n is a re o time to	able t prese	to test ntative	the hyp		es / to co	ompare	e / reliable	Э	[2]
	(ii		Selection Selection 1 ma	ect stud ect equ	dents fr al num r nami	om diffe bers of	erent o male	class / / fema	year g ale stud	roup / a ents			stratified	– mus	st link to [2]
	(c) (i)	Inser	ert data	(7) for	Feng T	Tai into	o table	e – both	tally a	nd total	for ma	rk		[1]
	(i	i)	Inser	ert seve	en syml	ools into	o Tong	g Zhou	ı						[1]
	(ii	i)	Shac	de Xi (Cheng	(15 – 19	9 cate	gory)							[1]
	(iv	v)	Show Easy Can Easy	y to re see o y to co	ividual ad off ir verall p mpare	detail o ndividua attern c numbe nd / clea	al num of distr rs	nbers / ributio	′ easy t n	o count	: / identi	fy exac	t number		
				ropleth		torn of	dictrib	vutios	Loome	oro oro	00				

Shows overall pattern of distribution / compare areas

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

Clear visual impact / shading categories in key

4@1

[4]

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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	record	ne measuring equipment d weather conditions before & after investigation / cont the changes in weather conditions / compare results v		ys	[2]
(c) (i)	Labe e.g. Expl Jar s Wate Notin	ram = 1 mark elling = 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	/ fastened to	_	[4]
(ii)	Coni Show Wind Hors	mometer: cups / spoons revolve in the wind / spins / tu nected to meter which counts number of revolutions pe ws reading as kms or miles per hour / reading from scr d vane: Arrow points the direction the wind (is coming se provides large surface area to catch the wind , S, W points / compass allow direction to be worked or	er minute reen from)	2 × 2 marks	[4]
(iii)		x pointer set to previous / local weather station reading er pointer moves to show current AP & index pointer sh	•	•	[2]
(iv)	Okta	s / 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	ulus cloud with correct shape & light or no shading			[1]
(vi)	Shad	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]