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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	Tide
(ii)	SE	[1]
(b) (i)	1500–1700	[1]
(ii)	206m/206.72m/207m	[1]
(iii)	83–95	[1]
Bot Ma Ma	th run NW–SE th 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]
Nu	ear/along roads cleated at Rose Belle attered at Deux Bras/Ruisseau Copeaux	[2]

[Max 20]

		May .
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2	(a) (i)	Kenya Tanzania	ambridge.	
	(ii)	2	36	6
	(iii)	Cameroon/Gabon	[1]	OM
	(iv)	Djibouti, Ethiopia and Kenya	[1]	
	(b) (i)	Correct divisions on Fig. 4. Max 1 for no labels	[2]	
	(ii)	Great Horn of Africa	[1]	
			[Max 8]	
3		t/gentle slope in foreground ls/mountains/steep slopes in background	[2]	
		rt) road		
		th/track ectricity) wires/pylons/power lines	[3]	
	(c) (i)	(Secondary) school/teachers' houses	[1]	
	(ii)	Church Sports Ground Primary school		
		Shop Mill	[2]	
			[Max 8]	
			[man o]	
4	12 11 6	y and February ugust and September		
	30–50n Dry/des	nm		
	Southe		[8]	
			[Max 8]	

			2
	Page 4	Mark Scheme: Teachers' version	Syllabus
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5	Phy (ii) Wat	ogical weathering – plant growth/mechanical weathering sical weathering – freeze-thaw/frost action er freezes and expands/root grows and expands hes crack wider/deeper	Syllabus 4.7 d. Par 2217 g [2]
		owing positive relationship	[2]
	(c) Release Global w Acid rair	•	[2] [Max 8]
6	Con	npletion of water npletion of wind 7–1992 rer	[2] [1] [1]
	(b) Fast win Low rain		[2]

[2]

[Max 8]

(c) Planting grass or trees/permanent vegetation cover Mulch tillage

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		GCE O LEVEL – October/November 2011 2217	6
		Section B	My My
(a) (i) Are	Mark Scheme: Teachers' version GCE O LEVEL – October/November 2011 Section B ea served by a settlement or service th / low order of services provided	19
(ii	Nu Spo Spo Eas Sm	h / low order of services provided mber / variety of services provided / more services ecialised services available ecific functions of different settlements se of access to settlements / transport links ealler centres means more competition mparative examples of services with different sphere of influence	[3]
(b) (i) Q1	: Should only be asking students at school so superfluous question / obvious	answer /
	Q2	waste of time Q2: Too vague to get specific and consistent answers / too personal / should give	
	Q3	options : Closed question, very specific answer / give options of methods of travel / a how travel to school / sometimes	isk about [3]
(ii	End 10°	edit explanation. No mark for 'Yes' bugh responses to be able to test the hypotheses / to compare / reliable of population is a representative sample aste of time / no time to do more	[2]
(iii	Sel Sel 1 r	e registers / school data base to sample every tenth students ect students from different class / year group / ages ect equal numbers of male / female students mark for naming sampling method – random, systematic, stratified – mus scription	
(c) (i) Ins	ert data (7) for Feng Tai into table – both tally and total for mark	[1]
(ii) Ins	ert seven symbols into Tong Zhou	[1]
(iii) Sh	ade Xi Cheng (15 – 19 category)	[1]
(iv	She Eas Ca Eas	togram: ows individual detail of numbers / exact number sy to read off individual numbers / easy to count / identify exact number n see overall pattern of distribution sy to compare numbers sy to understand / clear / simple / detailed / visual	

Choropleth map:

Shows overall pattern of distribution / compare areas

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 decidistance – 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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			~

8 (a) Thermometer / maximum-minimum thermometer Wet and dry (bulb) thermometer / hygrometer

(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) Diagram = 1 mark

Labelling = 1 mark

e.g. Funnel placed into jar / open container used to collect water / measuring scale Explanation = 2 marks

Jar stood firmly in ground / open ground / away from trees / fastened to pole Water poured into measuring cylinder

Noting / recording water level in measuring cylinder / jar

Reading taken every 4 hours period of time / fixed period of time

Empty container after use

[4]

(ii) Anemometer: cups / spoons revolve in the wind / spins / turns Connected to meter which counts number of revolutions per minute Shows reading as kms or miles per hour / reading from screen

Wind vane: Arrow points the direction the wind (is coming from) Horse provides large surface area to catch the wind N, E, S, W points / compass allow direction to be worked out

Other pointer moves to show current AP & index pointer shows change

2 × 2 marks

[4] (iii) Index pointer set to previous / local weather station reading / is point of comparison

(iv) Oktas / eighths

[1]

[2]

(d) (i) 1018 [1]

(ii) Rainfall bar to show 3 mm at 11.00

[1]

(iii) Completion of line graph to show atmospheric pressure 19.00 = 1012, 20.00 = 1015, 21.00 = 1018

1 mark for plots, 1 mark for joining lines

[2]

(iv) Wind direction: S

Wind speed: 20 km/hr (10 mm)

2@1

(v) Cumulus cloud with correct shape & light or no shading

[1]

[2]

(vi) Shade in 7 oktas (any 7 segments)

[1]

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- (e) (i) As atmospheric pressure decreases / low, rainfall increases / high, / as at 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

[4]

[Total: 30]