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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

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

0460 GEOGRAPHY

0460/41

Paper 4 (Alternative to Coursework), maximum raw mark 60

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.

	1000E October/November 2011	0700	71	
(a) (i)	Area served by a settlement or service			[1]
(ii)	High / low order of services provided Number / variety of services provided / more services Specialised services available Specific functions of different settlements Ease of access to settlements / transport links Smaller centres means more competition Comparative examples of services with different sphere	of influence		[3]
(b) (i)	Q1: Should only be asking students at school so superf waste of time	luous question /	obvious answ	ver /
	Q2: Too vague to get specific and consistent answer	ers / too persor	nal / should g	give
	Q3: Closed question, very specific answer / give option how travel to school / sometimes	s of methods of	travel / ask at	oout [3]
(ii)	Credit explanation. No mark for 'Yes' Enough responses to be able to test the hypotheses / to 10% of population is a representative sample Waste of time / no time to do more	o compare / relia	able	[2]
(iii)	Use registers / school data base to sample every tenth select students from different class / year group / ages Select equal numbers of male / female students 1 mark for naming sampling method – random, systems description		ed – must linl	k to [2]
(c) (i)	Insert data (7) for Feng Tai into table – both tally and to	tal for mark		[1]
(ii)	Insert seven symbols into Tong Zhou			[1]
(iii)	Shade Xi Cheng (15 – 19 category)			[1]
(iv)	Pictogram: Shows individual detail of numbers / exact number Easy to read off individual numbers / easy to count / ide Can see overall pattern of distribution Easy to compare numbers Easy to understand / clear / simple / detailed / visual	ntify exact numb	oer	
	Choropleth map: 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]

Mark Scheme: Teachers' version IGCSE – October/November 2011

Page 2

1

Syllabus 0460 Paper 41

Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – October/November 2011	0460	41

(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]

Page 4		Syllabus	Paper	
	IGCSE – October/November 2011	0460	41	
	ermometer / maximum-minimum thermometer it and dry (bulb) thermometer / hygrometer			[2]
To	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) (ii)	Connected to meter which counts number of revolution Shows reading as kms or miles per hour / reading from Wind vane: Arrow points the direction the wind (is complete provides large surface area to catch the wind N, E, S, W points / compass allow direction to be work Index pointer set to previous / local weather station reader.	ees / fastened to ar od of time s / turns as per minute a screen ling from) ed out	pole 2 × 2 marks f comparison	[4] [4]
	· · · · · · · · · · · · · · · · · · ·		[2]	
(iv)	Oktas / eighths			[1]
(d) (i)	1018			[1]
(ii)	Rainfall bar to show 3 mm at 11.00			[1]
(iii)	Completion of line graph to show atmospheric pressur 19.00 = 1012, 20.00 = 1015, 21.00 = 1018 1 mark for plots, 1 mark for joining lines	е		[2]
(iv)	Wind direction: S Wind speed: 20 km/hr (10 mm)		2 @ 1	[2]
(v)	Cumulus cloud with correct shape & light or no shadir	g		[1]
(vi)	Shade in 7 oktas (any 7 segments)			[1]

2

Page 5	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – October/November 2011	0460	41

- (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]