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.



	Page 2			Mark Scheme: Teachers' version	Syllabus	Paper	
				IGCSE – October/November 2011	0460	41	
1	(a)	(i)	Area	served by a settlement or service		[1	1]
		(ii)	Num Spec Spec Ease Sma	/ low order of services provided ber / variety of services provided / more services cialised services available cific functions of different settlements e of access to settlements / transport links ller centres means more competition parative examples of services with different sphere	of influence	[3	3]
	(b)	(i)		Should only be asking students at school so superfl waste of time	uous question / o	ovious answer	r /
			Q2: "	Too vague to get specific and consistent answe options	-	-	
				Closed question, very specific answer / give options how travel to school / sometimes	s of methods of tra		ut 3]
		(ii)		lit explanation. No mark for 'Yes' ugh responses to be able to test the hypotheses / to	compare / reliabl	e	
			10%	of population is a representative sample te of time / no time to do more			2]
		(iii)	Sele Sele 1 ma	registers / school data base to sample every tenth s ct students from different class / year group / ages ct equal numbers of male / female students ark for naming sampling method – random, syst cription			to 2]
	(c)	(i)	Inser	rt data (7) for Feng Tai into table – both tally and tot	al for mark	[^	1]
		(ii)	Inser	rt seven symbols into Tong Zhou		[1	1]
		(iii)	Shac	de Xi Cheng (15 – 19 category)		[1	1]
		(iv)	Show Easy Can Easy	ogram: ws individual detail of numbers / exact number / to read off individual numbers / easy to count / ide see overall pattern of distribution / to compare numbers / to understand / clear / simple / detailed / visual	ntify exact numbe	r	
			Shov Links Can	ropleth map: ws overall pattern of distribution / compare areas s similar areas within a category / groups be used to compare large numbers r visual impact / shading categories in key		4 @ 1 [4	4]

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(v)	dista Som Som Gene west e.g.	disagree / no clear pattern / true to som nce – reserve e areas away from school are in high categor e areas near to school are in low categories eral pattern is more students come from nor , rather than distance away from school Ping Gu (district 12) has 15 students / e.g. C to 1 mark max – reserve	ry th & east, and less co	me from south
(d) (i)	Com	pletion of table – 30%		[
(ii)	1 ma	graph completion – bus and car Irk for dividing line Irk for shading		[
(iii)	Only by of Almo First	er percentage / most students travel to schoo 31% travel by car / 39 out of 125 travel by ca her methods than car ost as many (30%) travel by train part of hypothesis is correct – there are 5 wa redit just for percentage or figures without int	ar / 69% don't travel by ays that students travel	car / more trav
(iv)	How How Why Do y Whic Do s Coul meth	tional questions in questionnaire such as: far is your home from school? / how far do y long does it usually take you to travel to scho do you use your named method of travel? ou always use the same method of travel? / n the route do you take to school? tudents travel alone or with others d investigate if there is any relationship b hod of travel	ool? / average time to t more than one method	of travel
	Does	bibly linked to bus / train services		
		d investigate links between gender / age & m	ethods of travel	[

[Total: 30]

Page 4		1	Mark Scheme: Teachers' version	Syllabus	Paper	
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2	• •		neter / maximum-minimum thermometer dry (bulb) thermometer / hygrometer			[2]
	То	record	ne measuring equipment d weather conditions before & after investigation / c the changes in weather conditions / compare result	•	iys	[2]
	(c) (i) Diagram = 1 mark Labelling = 1 mark e.g. Funnel placed into jar / open container used to collect water / mea Explanation = 2 marks Jar stood firmly in ground / open ground / away from trees / fastened to 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) (iii)	Coni Shov Winc Hors N, E	mometer: cups / spoons revolve in the wind / spins / nected to meter which counts number of revolutions ws reading as kms or miles per hour / reading from d vane: Arrow points the direction the wind (is comir se provides large surface area to catch the wind , S, W points / compass allow direction to be worke	s per minute screen ng from) d out	2 × 2 marks	[4]
	(111)	Index pointer set to previous / local weather station reading / is point of comparison Other pointer moves to show current AP & index pointer shows change				
	(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	pletion 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	I		[1]
	(vi)	(vi) Shade 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) [3]
 - (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]