## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

## MARK SCHEME for the May/June 2010 question paper

## for the guidance of teachers

## 0460 GEOGRAPHY

0460/42

Paper 42 (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.

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

CIE is publishing the mark schemes for the May/June 2010 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 – May/June 2010	0460	42			
1	(a) (i)	<u>Method</u> : Stratified sampling/Systematic Sampling/Random (1) OR description instead e.g. ask every 5 <sup>th</sup> person, use random numbers (1)						
		Qua	Qualified/reason:					
			To get an appropriate gender balance (1)					
			jet an appropriate age balance (1) avoid bias/fair test/valid. (1)		[2 @ 1 = 2]			
		100						
	(ii)	Easier to deal with data if there is only four classifications/different ages not helpful (1) Means that respondents don't have to disclose their exact age/may lie (1)						
		NOT	[2 @ 1 = 2]					
	()	NO						
	(iii)	<u>NOT Why did you come to this town or similar? Must be about MIGRATION</u> Where did you come from?/Where were you born? (1) <u>NOT Were you born here?</u>						
		How	/ long have you lived in this city? (1)					
			en did you move to the city? (1) / old were you when you migrated? (1)					
			you migrate alone or with family/friends? (1)					
		How	did you travel to the city when you migrated here?	(1)	[2 @ 1 = 2]			
	(b) (i)		ticks/crosses. Accurate completion of Fig. 2					
		One	error = minus 1 mark; Two or more = 0		[2 @ 1 = 2]			
	(ii)	To c	heck that the questionnaire was producing appropr	iate answers (1)				
			check that everyone was completing the questionn	aire in the same w	ay/to compare			
			ress so far (1) agree methodology/To change methodology if not w	orkina/To improve	method (1)			
		Don	Don't want to do all 25 questions each and then find out that the methodology					
		inco	rrect or has been applied in different ways (1)		[2 @ 1 = 2]			
	(c) (i)		<u>ticks/crosses</u> . Pie graph completion ark for plotting dividing line accurately at 95% or 91 <sup>0</sup>	0/				
			ark for shading sectors – <u>both</u> must be correct	70	[2 @ 1 = 2]			
			othesis is incorrect/partially correct Tick HA Credit I					
	(ii)	<u>Jata = 1 max but n</u>	ot compulsory.					
		Bigg	hypotheses stated as correct. Jest group/highest number of residents came to th	e city in search of	a paid job (1)			
			this group is only 36 out of 100 respondents (1)	1/100 (1)				
			It people came to the city for different reasons (1) 64 by people also moved for educational reasons (1) wi		[1 + 2 = 3]			
				. ,				
	(d) (i)	Bar	graph completion: Use ticks/crosses. Dom. servants	s 15: plumbers 8				
	(~) (')		arks for accurate bar plots; ignore width and shading		[2 @ 1 = 2]			
	/::>		othesis correct (Tick HA) Data can be credited if any	nnarta U				
	(ii)		othesis correct (Tick HA) Data can be credited if sup biggest groups had paid jobs e.g. shop owner, dom		w driver (1)			
		beca	ause 73 of 100/70–75%/estimate 3/4 respondents ha	d paid jobs (1)				
		Mino	ority did not have paid jobs (unemployed, student, h	ousewife) (1) with 2	27/100. (1) [2 @ 1 = 2]			
					<u>رد س ا – د</u> ]			

Page 3		Mark Scheme: Teachers' version	Syllabus	Paper			
		IGCSE – May/June 2010	0460	42			
	(e) NO MARK FOR Hypothesis; 1 reserve for Data; then 2 others. Written statements must be comparative; data should be compared as pairs. <u>Hypothesis is correct</u> in that all 100 respondents (1) earned less when compared with the average income for the city in Uttar Pradesh (1) <50 000 with 54 000 (1) <u>Hypothesis partly correct</u> because 27 out of 100 (1) had very low incomes compared with the city average (1) <20 000 with 54 000 (1) but some of the rest will be above Uttar Pradesh in the 20 000–50 000 category. (1) <u>Hypothesis incorrect</u> because <u>compared</u> with the population of India as a whole many respondents <u>probably</u> earned above the national average (1) of 24 000 with 73/100 in 20 000–50 000 (1)						
	D	In attempt to get a balanced sample/fair test. (1) Did not want to get too many men/women or old/young Different patterns between male/female; age. (1)	(1)	[1]			
	N N T T C	<u>Aust relate to age/gender</u> Nore men than women moved to the city (1) Nore old than young moved to the city (1) The age of the migrants influences the jobs they have ( The gender of the migrants influences the jobs they hav On average men earn more than women (1) On average young earn more than old (1)		[1]			
(1	E R Ir H	Respondents may not want to divulge personal information farnings may be informal/not paying tax (1) Respondents might be suspicious of why asked/use of a ncome may vary/may not know what it is (1) larder to categorise/graph (1) flay lie/be ashamed (1)		[2 @ 1 = 2]			
	plus 3 NO M e.g. H availa Carry	<u>T BE RELEVANT/OTHER</u> i.e. not age/gender/jobs/mig <u>3 for fieldwork OTHER than questionnaire – 0 if suge</u> <u>ARKS IF CHOICE IS INAPPROPRIATE</u> lealth/sanitation or quality of houses/quality of environr ibility of services such as electricity, drinking water; out investigation by taking photographs, a diary,	<u>gest asking ques</u>	tions/interviews.			

Keep a diary, Make a blog, video etc. <u>NOT Quality of life.</u> Credit detail of suggested methods

[1 + 3 = 4]

[Total: 30]

Page 4		4	Mark Scheme: Teachers' version	Syllabus	Paper	
			IGCSE – May/June 2010	0460	42	
2	(a) (i)	То с	chieve equal time divisions between readings (1) compare/fair/valid/consistent/reliable. (1)		[1]	
	(ii)	Stud	ess to school at weekend/school closed (1) lent is busy at weekend (1) <u>w</u> personal problems e.g. late/traffic delays (1)		[1]	
		Funi Jar s Allov Read Emp Clea Clea Clea On g	whasis on used of rain gauge NOT siting factors or re nel placed into jar (1) stood firmly in ground/above land (1) w rainfall to collect in measuring cylinder/jar (1) d water level in measuring cylinder (1) oty water to set up for next day (1) whasis on site factors ar of buildings/away from shelter (1) ar of trees/away from interception (1) ar of people/animals/away from interference (1) grass/not concrete (1)	<u>əcording.</u>	[3 @ 1 = 3]	
	(iii)	On flat land (1)[2 @ 1 =The letters (N, E, S, W) show directions/compass or cardinal directions/North EaSouth West. (1)The arrow shows which direction the wind is coming from/from which the windblowing. (1)The wind vane is located on the roof so that there is no obstruction/maximum windstrength/interference (1)[3 @ 1 =				
	(iv)	(iv) Wind sock/Streamer/thread attached to pole/use a flag/Throw grass into the finger (1) <u>NOT equipment.</u>				
	(v)	<u>Two</u>	ticks/crosses. Completion of wind rose graph NW =	= 3, N = 1	[2 @ 1 = 2]	
	(vi)	<u>Two</u>	ticks/crosses Completion of scatter graph. Plot at 4	mm and 8 m	[2 @ 1 = 2]	
	(vii)	<ul> <li><u>Tick/cross HA:</u> (1) plus statement (1) plus reserve (1) for Data. <u>NOT little from north.</u> <u>Hypothesis is not supported</u> (1) if just consider S winds (1) as only rainfall genera 5mm when winds from S (1) <u>Hypothesis is supported</u> (1) if include SW winds &amp; SE winds in quadrant (1) w 36/52 mm of rainfall (1) or most comes from SE/E. (1)</li> </ul>				

Page 5		Mark Scheme: Teachers' version Syllabu		yllabus	Paper		
		IGC	SE – May/June 2	010		0460	42
(c) (i)	<ul> <li>c) (i) Primary data is collected by student herself (1)</li> <li>Secondary data is obtained from other sources/already exists/books/the internet.</li> <li>IF collected by others/not herself must be qualified. (1)</li> </ul>						
(ii)	<u>Tick/cross.</u> 72/14 = 5.14. Accept 5.1 or 5.142 as only alternatives.					[1]	
(iii)	<u>Tick/cross:</u> Completion of dispersion graph by plotting 9mm at 2 days at airport. [1						airport. [1]
(iv)	<ul> <li>(iv) <u>Answers must relate to pattern</u> More variation in rainfall at airport/more dispersed/spread out (1) More days with little rainfall at school (1) More days with high rainfall at airport/less days with high rainfall at school (1) [2 @ 1 =</li> </ul>						l (1) [2 @ 1 = 2]
(v)	Wind More Poss	ls blowing from s incidences of w	ne sea/school furth sea generally brin vinds from S (from n altitude (airport h e (1)	g more rain sea) at airp	(1) oort (1)	) (1)	[3 @ 1 = 3]
inve Rep Don Mak Ens Tak	<ul> <li>(d) Emphasis on HOW the student could improve THESE results; do not credit ner investigations         Repeat the study herself (1)         Done study over longer period of time than two weeks (1)         Make two sets of recordings (possibly a friend) to increase reliability (1)         Ensure readings are comparable at the two locations (e.g. time of readings) (1)         Take readings in different seasons to see if there is any difference (1)         Take readings at more than one time in the day (1)         [3 @ 1 = 3]      </li> </ul>						

[Total: 30]