

CAMBRIDGE INTERNATIONAL EXAMINATIONS Cambridge International General Certificate of Secondary Education

MARK SCHEME for the May/June 2015 series

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 should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2015 series for most Cambridge IGCSE[®], Cambridge International A and AS Level components and some Cambridge O Level components.

® IGCSE is the registered trademark of Cambridge International Examinations.



Page 2		2	Mark Scheme	Syllabus	Pape	er
			Cambridge IGCSE – May/June 2015	0460	41	
1	(a)	Hy Hy Hy Hy Hy	derabad less primary / India more primary derabad more secondary / India less secondary derabad more tertiary / India less tertiary derabad most / over half in tertiary but India most / over half in prima derabad over half in tertiary and secondary but India over half in prir derabad least in primary but India least in secondary	ary nary		
		Ne Cr	ed comparison edit 'only' for comparison and ignore stats	2	@ 1	[2]
	(b)	Sy As OF Ra Us orc OF Str As 1 r If r	stematic sampling k every tenth person / regular intervals andom sampling e random numbers / ask next person they meet / ask anybody / any der atified sampling k appropriate age / gender balance/ in proportion to population / put is nark for name, 1 mark for method name of method is wrong, give description mark for description of one	order / no s into groups e method	pecific	
		lf r	name and description don't match credit 1 mark			[2]
	(c)	(i)	To find out if they are residents (visitors) or migrants / to find if they Students only want to ask people who have moved into area / targe Some people they approach will always have lived there / not be a No need to continue if not a migrant / not waste people's / student's see if they are worth interviewing Results will be unreliable / inaccurate / / not valid / wrong information if local people are included	v live there eting the rig migrant s time / save	ht peop e time /	ole ′ to
		(ii)	So that answers are relevant to hypothesis			[2]
		()	10 people from Europe to Jayabheri Need correct width and correct shading for 1 mark			[1]
	(iii)	Map completion: 5 people to Begumpet from Tamil Nadu Need shaded circles			[1]
	(iv)	Shows overall pattern of distribution / compares areas / shows whe from / clear visual impact / easy OR simple OR quick to interpret / e see results / easy to count	ere migrants easy to rea	come d / eas	y to
						[1]
		(v)	Complete divided bar graph for Begumpet: 2–4 years =11, more than 4 years = 27 1 mark for dividing line at 23, 1 mark for shading both sections			[2]

Page 3	Mark Scheme	Syllabus	Pap	er
	Cambridge IGCSE – May/June 2015	0460	41	
(vi	Completion of graph – Find work in the city Jayabheri = 4 (cross), Begumpet =21(square)	2	2@1	[2]
(vii	Results do support hypothesis / hypothesis is true – 1 mark reserv	e		
	WHERE (for example) Most to Jayabheri come from outside India, most to Begumpet com from within India More to Jayabheri from USA OR Indian migrants to Jayabheri only come from 1 state, Indian mig to Begumpet come from 6 states	ne grants		
	WHEN (for example) Migrants to Jayabheri have lived there less time than migrants to Begumpet More newcomers to Jayabheri			
	WHY (for example) Migrants to Jayabheri were mostly transferred by their company bu migrants to Begumpet mainly moved to find work / better home More migrants to Jayabheri were transferred by their company	ıt		
	Credit 1 mark for each of where, when and why			
	Credit 1 mark max for stats (accept percentages) Paired stats – accept tolerance of 1 e.g. 34 migrants to Jayabheri from USA and 5 to Begumpet 9 migrants have lived in Jayabheri for less than 6 months and 2 in 43 migrants to Jayabheri were transferred by the company and 3 ir 43 migrants to Jayabheri were transferred by the company and 21 to find work	Begumpet n Begumpet moved to B	egump	pet
				[5]
(d) (i	Completion of bars for Begumpet: Benefit of affordable apartment = 30, problem of traffic congestion	= 26 2	2@1	[2]
(ii	 1. Easy access to the airport 2. A secure housing area for the family to live in 3. Traffic congestion caused by local industries 	3	6@1	[3]

Page 4	Mark Scheme	Syllabus	Paper
	Cambridge IGCSE – May/June 2015	0460	41
(iii) More support for Jayabheri – 1 mark reserve		
	Jayabheri has more benefits / fewer problems than Begumpet or vi Jayabheri has more benefits than problems but Begumpet has mo benefits Jayabherei has more types of benefits suggested or vice versa Jayabheri has fewer types of problems suggested or vice versa Credit paired data (locations and total numbers) to 1 mark max e.g. Jayabheri has 147 benefits and Begumpet has 77 benefits Jayabheri has 6 types of benefits and Begumpet has 4 types of benefits NO credit for reference to people in stats.	ce versa re problems nefits	than
(e) Ta Ta C M D C C O ho C C	alk to people who live in squatter settlement / interview them / ask que ake photos (of different houses / services to show varying conditions) ollect secondary data from internet / local government records / censu ake a blog to get peoples' opinions about housing / services ake a podcast / video to show housing / services raw field sketches (of houses / services) and label them to show onditions o a housing quality survey / bi-polar survey raw a land use map of services / do a land use survey ount / tally different types of services / record different services ount / tally number of big houses / brick-built houses bserve / look at / make notes on / write a description of / walk round s busing conditions	estion us o mething e	e.g. [4]

[Total 30 marks]

Page	e 5	Mark Scheme	Syllabus	Pap	er
		Cambridge IGCSE – May/June 2015	0460	41	
2 (a) M 1. of 2. fo 3. er	ust relate to safety See when the sea would be safe to take measurements in / not get co f by the tide / less dangerous to go at low tide / dangerous at high tide To take appropriate clothing or example / to see if it is is safe to work recast / take sunblock Would be able to communicate / call if they got into difficulty / got sep mergency	ut / not work parated / ca	if storr II in an	n is 1
		3 @ 1		[3]	
(b) (i)	Wind sock / streamer / material held up or attached to pole / throw g finger / kite /observe features blown by the wind Use compass (to see direction wind is blowing) Check every day for a month / check over period of time	grass into t	he air /	/ wet
					[2]
	(ii)	Wave crests approaching the beach			[1]
	(iii)	Wind drive waves / wave move in direction of wind Pebbles / waves / swash come to the beach at an angle / oblique Backwash / waves takes material back down the beach / at right a Process is repeated / moves in zig-zag along beach	ngles / perp	pendic	ular
				[4]	
(c	;) (i)	Plot 11.2, 10.8 at site 5	2	2@1	[2]
	(ii)	 Hypothesis is correct – 1 mark reserve Distance travelled is greater on unprotected coast / orange travels f unprotected coast – or vice versa on protected coast Distance travelled increases away from area of protection Every distance on unprotected coast was greater than on protected Least distance on unprotected coast was more than greatest distance 	urther on coast ce on prote	ected	
		Credit paired data (sites and distances) to 2 mark max Only credit average stats not individual tests e.g. site 1 average distance moved is 7.3m and site 4 average distance Average distance moved on protected coast (sites 1,2,3) is 7.6m ar coast (sites 4,5,6) is 11.0 or 11.1m or 11.06m On protected coast distance varies from 7.3–8.2m and on unprotect 9.8–12.4m On protected coast distance is less than 9m and on unprotected coast than 9m / 7–9m on protected coast and 9–13m on unprotected coast Only credit exact figures shown above	ance is 9.8r id on unpro ted coast fr ast distanc st	n otected ^r om e is mo	1 ore
					[4]
	(iii)	Wind direction:	wo from co	ma	

If wind is from a different direction results could change / if wind blows from same direction results stay the same Waves may be approaching the coast from a different direction OR Waves move floats / oranges in a different direction

Page 6	Mark Scheme	Syllabus	Paper
	Cambridge IGCSE – May/June 2015	0460	41

		Strength of wind: If wind is stronger / weaker results could change / if wind is same strength results the same Waves may be less / more powerful to move floats / oranges OR Waves move floats / oranges further or less distance / it affects distance move NB: If wind is stronger oranges move further = 2 marks	esults stay	y
			2 + 2	[4]
(d)	(i)	Plot Groyne D on bar graph: South side = 1.03m above beach	004	101
		north side = 2.56m above beach	2@1	[2]
	(ii)	Beach is higher / more material on south side of groynes or vice versa on no	rth side	[1]
	(iii)	The groynes trap material which is moved by longshore drift / from south to r material collects or builds up on south side	10rth /	[1]
	(iv)	Make more measurements / more than 3 measurements along each groyne Repeat the investigation at different times of the year Get other students to check accuracy of measurements	2 @ 1	[2]
(e)	Lay Pol Pol Rea Stu Rea	v tape measure on beach to create a transect / perpendicular to beach or up th es put at break of slope / at equal / set / certain distances apart asure distance between poles es must be vertical ad angle from lower pole (nearer to sea) to upper pole (further from sea) dent holds clinometer at top / at same height on ranging pole ad / measure / record angle ve poles up beach / along profile to next site	າe beach	

Need annotations on diagram not just labels

[4]

[Total 30 marks]