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.

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1 (a)	 Hyderabad less primary / India more primary Hyderabad more secondary / India less secondary Hyderabad more tertiary / India less tertiary Hyderabad most / over half in tertiary but India most / over half in primary Hyderabad over half in tertiary and secondary but India over half in primary Hyderabad least in primary but India least in secondary 				
		ed comparison edit 'only' for comparison and ignore stats	2	@ 1	[2]
(b)	Ask OR Rai Use ord OR Stra	ndom sampling e random numbers / ask next person they meet / ask anybody / any er		oecific	
	lf n	nark for name, 1 mark for method ame of method is wrong, give description mark for description of one ame and description don't match credit 1 mark	e method		[2]
Studen Some p No nee see if th Results		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	eting the rigl migrant s time / save		
	(::)	So that answers are relevant to hypothesis			[2]
	(ii)	Map completion: 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 / see results / easy to count	-		r 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]

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(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 mi to Begumpet come from 6 states			
	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 Begumpet 43 migrants to Jayabheri were transferred by the company and 3 in Begumpet 43 migrants to Jayabheri were transferred by the company and 21 moved to Begumpet to find work			et
				[5]
(d) (i)	Completion of bars for Begumpet: Benefit of affordable apartment = 30, problem of traffic congestion	= 26 2	2@1	[2]
(ii)	 Easy access to the airport A secure housing area for the family to live in Traffic congestion caused by local industries 	3	8@1	[3]

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(ii) More support for Jayabheri – 1 mark reserve		
	Jayabheri has more benefits / fewer problems than Begumpet or v Jayabheri has more benefits than problems but Begumpet has mo benefits		s than
	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 be NO credit for reference to people in stats.	nefits	
	Hypothesis conclusion is more support for Begumpet = 0 (XHA) If no decision ^HA and credit evidence		[3]
	Talk to people who live in squatter settlement / interview them / ask qu Take photos (of different houses / services to show varying conditions) Collect secondary data from internet / local government records / cens Make a blog to get peoples' opinions about housing / services Make a podcast / video to show housing / services Draw field sketches (of houses / services) and label them to show conditions Do a housing quality survey / bi-polar survey Draw a land use map of services / do a land use survey Count / tally different types of services / record different services Count / tally number of big houses / brick-built houses Observe / look at / make notes on / write a description of / walk round services	us	ə.g.
	housing conditions Credit development of ideas related to various methods		[4]

Page	5	Mark Scheme	Syllabus	Рар	er
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2 (a)	 (a) Must relate to safety 1. See when the sea would be safe to take measurements in / not get cut off by the tide / less dangerous to go at low tide / dangerous at high tide 2. To take appropriate clothing or example / to see if it is is safe to work / not work if forecast / take sunblock 3. Would be able to communicate / call if they got into difficulty / got separated / call emergency 				
		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 tl	ıe 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 angles / pe 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	@ 1	[2]
	(ii)	Hypothesis is correct – 1 mark reserve Distance travelled is greater on unprotected coast / orange travels is 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 coast	l coast	cted	
		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 unprotected 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	nd on unpro ted coast fr ast distance	otected	
					[4]
	(iii)	Wind direction: If wind is from a different direction results could change / if wind blo direction results stay the same Wayos may be approaching the coast from a different direction OR		me	

Waves may be approaching the coast from a different direction OR Waves move floats / oranges in a different direction

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	Strength of wind: If wind is stronger / weaker results could change / if wind is same strength results stay the same Waves may be less / more powerful to move floats / oranges OR Waves move floats / oranges further or less distance / it affects distance moved NB: If wind is stronger oranges move further = 2 marks			
		2 + 2	[4]	
(d)	 (i) Plot Groyne D on bar graph: South side = 1.03m above beach north side = 2.56m above beach 	2@ 1	[2]	
(ii) Beach is higher / more material on south side of groynes or vice versa	on north side	[1]	
(i	ii) The groynes trap material which is moved by longshore drift / from sou material collects or builds up on south side	ith to north /	[1]	
(i	 Make more measurements / more than 3 measurements along each g Repeat the investigation at different times of the year Get other students to check accuracy of measurements 	royne 2 @ 1	[2]	
 (e) Lay tape measure on beach to create a transect / perpendicular to beach or up the beach Poles put at break of slope / at equal / set / certain distances apart Measure distance between poles Poles must be vertical Read angle from lower pole (nearer to sea) to upper pole (further from sea) Student holds clinometer at top / at same height on ranging pole Read / measure / record angle Move poles up beach / along profile to next site 				

Need annotations on diagram not just labels

[4]

[Total 30 marks]