Cambridge International General Certificate of Secondary Education

MARK SCHEME for the May/June 2015 series

0460 GEOGRAPHY

0460/22

Paper 2, 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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Ρ	age 2	Mark Scheme	Syllabus	Paper
		Cambridge IGCSE – May/June 2015	0460	22
1	(a) (i) other,		[1]
	(ii) dam,		[1]
	(iii) dip tank,		[1]
	(iv) 1411 <u>metres</u> ,		[1]
	(v	<pre>reservoir/building(s), (built-up, settlement = 0)</pre>		[1]

If more than one feature given and one is wrong = 0

(b)

	Area in Fig. 2A	Area in Fig. 2B	Both these areas	Neither of these areas
flat land		1		
steep land	✓			
land over 1500 m	✓			
bush			~	
tarred road				~

More than one tick per row = 0, but for bush allow 3 ticks in columns 1, 2 and 3, or two ticks in columns 1 and 2. [5]

(c) (i) narrow, (small = 0) variable width, flows west, lake. tributary/confluence (singular or plural), meanders/bends etc., rapids, (rapid waterfall = 0) causeway, bridge, gentle gradient/on a gentle slope, braiding/island/splits and re-joins, [4] (ii) narrow/small, 0-400 m (allow within tolerance), wide(r) in west/downstream, [1] (d) (i) 3200 – 3400 (metres), [1] (ii) south east, [1] (iii) 145° – 149°, [1]

Pa	age 3	3	Mark Scheme	Syllabus	Paper
			Cambridge IGCSE – May/June 2015	0460	22
	(e)	58) Co	6704/5 = 2, rrect square (5870) = 1,		[2]
2	(a)	(i)	settlements in <u>order/arrangement/rank/organisation</u> of importance/s Allow other valid expressions of the terms underlined.	size/service	s, [1]
		(ii)	largest/larger population, most/more services/stores/primary schools,		[1]
			Needs to be comparative.		
		(iiij	more services/named services than expected/for its population/than	n Settlemer	ıt E, [1]
	(b)	(i)	secondary school,		[1]
		(ii)	601 – 1400,		[1]
	(c)	(i)	settlement C plotted with 5000 population and 11 convenience stor	es,	[1]
			(Allow without the C)		
		(ii)	positive correlation, direct relationship, as one increases the other increases,		[1]
	(d)	larg Mu	ger number of low order settlements/smaller number of high order se st be comparative.	ttlements,	[1]
3	(a)	Wi	nter: frozen/no flow/flow beneath ice,		
		<u>Su</u>	<u>mmer</u> : flow/slow flow/fast flow,		[2]
	(b)	wic gei gei art brie floa	le, htle gradient, ander/bend, htle/shallow banks, ficial/brick/stone/blocks/concrete banks, dge, ats/buoys/net,		[3]
	(c)	erc fas pro allo pro aes	osion, osion on outer/right bank, (= 2) t(er) flow on right bank, otect buildings/city, ow <u>access</u> to river (for boating, fishing etc.), omenade/footpath/pavement, othetic appearance,		[3]

Pa	age 4	Mark Scheme	Syllabus	Paper
		Cambridge IGCSE – May/June 2015	0460	22
4	(a)	start over oceans/seas, move towards land, curved paths,		
		move NW in north, move SW in south, If neither of the above two points are awarded, allow 1 mark for <u>either</u> : move W, <u>or</u> move NW and SW,		
		move away from Equator/towards Tropic <u>s,</u> move north in Indian Ocean/move north located,		[3]
	(b)	<u>Rainfall</u> stops, "little or no rain" = 1 higher <u>before</u> eye lower <u>after</u> eye (increases then decreases = 0). Allow 20 mm before and 8 mm after, or by 12 mm.	w by figures,	such as
		<u>Wind direction</u> changes from NW to SE/opposite direction, becomes calm in eye,		
		<u>Pressure</u> falls/low/falls then rises, (to) <u>below</u> 970 mb or reasonable figure below 970 mb,		
		<u>Temperature</u> rises/high, (to) 30 °C/(to) 31 °C/by 5 °C/by 6 °C,		
		Reserve one mark for each element. For points shown by figures correct unit must be given at least once.		[5]
5	(a)	yes/vehicles are a source,		
		NO ₂ found in urban areas/built-up areas/cities etc., (allow around urba single city. NO ₂ found in London/Birmingham/Liverpool/Leeds/Manchester, many/more cars/traffic congestion in urban areas,	n areas) Not	just a
		in lines joining urban areas/along roads/lines where vehicles travel,		[4]

Page	5	Mark Scheme	Syllabus	Paper
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(b)	(i)	no/little/some relationship,		
		most/higher/mainly in rural areas/most/higher/mainly outside urban in urban areas, Not just a single area. found next to urban areas/to east of urban areas/around urban areas found in <u>some</u> urban areas, found in/close to Liverpool/Edinburgh, Also allow Manchester/Le labels.	areas/ <u>ofter</u> as, eds becau	<u>ı</u> not founc se of map
		low (allow none) in <u>some</u> urban areas, low (allow none) in Birmingham/Glasgow/Cardiff/London/Belfast,		[3
	(ii)	power stations, burning fossil fuels/coal/oil/gas/other named material, factories/manufacturing industry/heavy industry,		[1
6 (a)	(i)	thick ash/most ash/30 cm of ash, pyroclastic flows, pyroclastic flows very destructive/dangerous/cause death, near/4 km from volcano/summit,		[2]
	(ii)	Advantage: volcano a tourist attraction/tourism benefited,		
		<u>Disadvantages:</u> parts of the island an Exclusion Zone/evacuated, destruction of property/airport/hotel/hotels close, (Allow if expressed tourists deterred by volcano,	d in future)	
		Advantage = 1 Disadvantage = 1		[2
	(iii)	commercial activity (moved to north), government functions (moved to the north), jobs (in north), new airport/airport closer,		[2]
(b)	sub ber me isla	oduction/description of subduction process, neath Montserrat, Iting, nd arc,		[2