MARK SCHEME for the October/November 2013 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.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



Page 2		ge 2			Syllabus	Paper
				IGCSE – October/November 2013	0460	22
1	(a)	(i)	dam			[1]
		(ii)	Mter	i		[1]
	((iii)	narro	ow gravel/(narrow) earth		[1]
		(iv)	Lipfu	uli/national monument/place of historical interest		[1]
		(v)		pound, vation/dam,		[1]
			(agri	iculture, cadastral boundary, narrow road, track and e than one answer and one is wrong = 0 (unless sta		il) [1]
	(b)	4 co	orrect	ly placed arrows within the following tolerances:		
		(i)	swar	mp 11–20 mm (allow 77–80 mm)		[1]
		(ii)	Lunc	di River 36–44 mm		[1]
	((iii)	pan	58–64 mm		[1]
	(iv)	Use Arrow Meas Ther If the out c	t facing slope of Bendezi Hill 80–92 mm, (allow 77–5 the ruler device to measure the answers. ws should end within about 1cm of the profile. sure to the point that the arrow projects to. re should be no ambiguity. ere is more than one response and one is wrong, of tolerance, then the answer = 0. w labels by names or question numbers.	-	- /
	(c)	(i)	aver	age height between 340–400 m		[1]
		(ii)	most	tly gentle slopes		[1]
	((iii)	main	n rivers flow south		[1]
	((iv)	river	s have many tributaries		[1]
		(v)	high	drainage density		[1]
			More	e than 1 tick per item = 0.		
	(d)	(i)	368	<u>m</u>		[1]
		(ii)	13–1	17 ⁽⁰⁾		[1]
		(iii)	sout	h west/south south west		[1]
		(iv)	4946	513/4		[1]
		(v)	5000	0–5200 (m)		[1]

	Page 3				Paper	
				IGCSE – October/November 2013	0460	22
2	(a)	area	ı X w	ith diagonal shading, (allow diagonals in either dired	ction)	[1]
	(b)	high high high high	(er/e (er/e (er/e <u>est/v</u>	est) on coast/low(er/est) inland, est) in east/low(er/est) in west, est) in south/low(er/est) in north, est) in south east/low(er/est) in north west, rery high/>900 at Tianjin/Shanghai/Hong Kong/Maca two needed)	au/in cities,	
				density, allow figures of 301 (people/km²) or more. density, allow figures of 300 (people/km²) or less.		
		Allov	w "po	opulation" without "density".		[3]
	(c)	.,	dens	and = high(er) density/highland = low(er) density/neg se(r) areas below 1000 m, se(r) areas above 1000/4000 m,	gative relationship),
				nigh density, allow figures of 301 (people/km²) or mo ow density, allow figures of 300 (people/km²) or less		[2]
			low a high high trans high	ner) air over 4000 m/high, areas developed trade/ports/harbours/fishing, areas cold/harsh/extreme/low areas warm/moderat /steep areas transport difficult/inaccessible/remote/ sport easier/more accessible, /steep areas difficult for agriculture/low/flat areas (ea	isolated/few route asy) for agriculture	е,
			high	/steep areas difficult to build on/low/flat areas easy t	to build on	[2]

Page 4		Mark Scheme	Syllabus	Paper
		IGCSE – October/November 2013	0460	22
(a)	hotel(s)/a hill/cliff/m hill/cliff/m gentle slo mountair	ng/white water, apartment(s)/villa(s)/resort <u>s,</u> aountain scenery/beauty, aountain for walking/climbing, appes for development, as give shelter, as = warm/tropical climate		[3
(b)	Landforn	n Y deposition/accumulation/build up <u>by sea</u> in sheltered/low(er) energy area, in bay, longshore drift, constructive waves/swash > backwash/v		sition by tides)
	Landforn	a Z deposition/accumulation/build up <u>by win</u> onshore wind/wind blows inland/sand ca blows/picks up <u>sand from beach</u> , at low tide, obstacle/vegetation blocks wind/traps sa later development of soil/grey dunes, stabilised by vegetation/vegetation s resistant vegetation	arried inland, and,	alt or drougl
		Reserve 1 for each landform.		[
(2)	(i) volc	ano label within tolerance		[1

4	(a) (i)	volcano label within tolerance	[1]	l

- (ii) fold mountain label within tolerance [1]
- (iii) earthquake foci label within tolerance

Arrow points/end of lines must be inside the following tolerances:



Fig. 6

Labels must be on Fig. 6. Record responses on other Figs as NR.

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[1]

	Page 5			Mark Scheme	Syllabus	Paper
				IGCSE – October/November 2013	0460	22
	(b)	dive	ergen	t/constructive		[1]
	(c)	B C E D A				[4]
5	(a)	(i)	sma arab	ll scale, le		
			Dele	te once correct answer for every tick more than two		[2]
		(ii)		etables/named vegetable/crops, ept best answer.		[1]
	(b)	milk hide calv mar	es/lea ves/yo nure/o	y produce/named dairy product, ither, pung animals/animals to sell,		[2]
	(c)			nd/low rainfall/drought/arid/desert/lack of water, nt/sandy soil		[1]
	(d)	vari sup sup catt diffe	ed/nu ply of ply of ply of le for erent	be fails the other can be used, utritious diet, f fodder, f fuel, f manure, prestige only, outputs in different seasons, draught animals		[2]
6	(a)	(i)		ect plot of 45 thousand million tonnes for China, ween and not touching the 44 and 46 lines)		[1]
		(ii)	17 (t	housand million tonnes)		[1]
	(b)	(i)	Gerr	nany		[1]
		(ii)	6.2 t	housand million tonnes		[1]

Page 6	Mark Scheme	Syllabus	Paper
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(c) sun emits short wave radiation,

short wave radiation passes through the atmosphere/ CO_2 /greenhouse gases, (reaches surface alone = 0)

Earth emits long wave radiation,

increased absorption/trapping of long wave radiation,

increased re-radiation/long wave radiation back to Earth,

increased temperatures/global warming/Earth hotter/atmosphere hotter (but not upper atmosphere),

*increased evaporation/humidity/rainfall/wind/drought, (*only allow as a consequence of increased temperature)

Allow ultra violet for short wave and infra red for long wave. [4]