MARK SCHEME for the May/June 2014 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 May/June 2014 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



Page 2			Mark Scheme	Syllabus	Paper		
			IGCSE – May/June 2014	0460	02		
1 (a)) (i)	Dip	tank/Jeta Dip		[1]		
	(ii)	Ado	ka		[1]		
	(iii)	Brid	ge		[1]		
	(iv)	Nati	onal monument/place of historic interest/rock paintin	ng	[1]		
	(v)	Wat	erfall(s)/weir		[1]		
(b)	 (b) Flows N/NNE (Then) flows NE/ENE/E, meanders (Fairly) straight sections <u>Many/several</u> tributaries/confluences <u>Small</u> tributaries, (Don't allow tributaries leaving the river) 100m – 300m wide (allow distances between)/wide/widens towards Pote/NE/downs Islands/braided/splits and rejoins Rapids Waterfall(s) Gentle gradient 						
(c)) Hill/mountain/high/upland/Jeta hill Plateau/flat(ter) <u>top</u> /gentle(r) <u>top</u> , Steep (sides) 1401 <u>m</u> – 1459 <u>m</u> (Allow any height in between) Escarpment/scarp Valley(s)						
(d)) (i)	244/	/5 787		[1]		
	(ii)	236 ⁰			[1]		
(e)) (i)	Line	ar		[1]		
	(ii)	Gen Edg Wat	along road/for transport/for access tle slope/avoids steep/avoids high e of cultivated land er supply from small rivers ids flooding				
		Mar	k (i) and (ii) independently		[1]		
(f)	(i)	Inya	uri river 61 – 63mm from left		[1]		
	(ii)	Roa	d, 37 – 39mm from left		[1]		

(iii) Smooth rock 7 – 27mm or 83 – 100mm from left (two options) [1]

	Page 3			Mark Scheme	Syllabus	Paper
				IGCSE – May/June 2014	0460	02
2	(a)	(i)	Poin	t on the Earth's surface above the focus		[1]
	(b)	(i)		passing between the 7s and 8s north of Yokohama passing between the 7 and the 9 near Iwate and Fu		[2]
		(ii)	epico High Inter Cond	intensity close to epicentre/highest 300km from epentre er in E/NE/lower in W/SW hsities from 9 to 4 (wherever stated) centric zones dai an anomaly	picentre/lower fur	ther away from
	(c)	(i)	Affe	e to epicentre/high(est) intensity/intensity 8 cted by tsunami a large population		[2]
		(ii)		rom <u>epicentre</u> /named distance from <u>epicentre</u> neltered bays/protected by land/did not face tsunam	i	[1]
3	(a) <u>Relief</u> Flat/gentle slopes/plain (lower areas), Small hills/small mounds/isolated hills/knolls/kopje, Plateau/ridge/flat top, Steep slopes/cliffs, Boulders/ <u>large</u> rocks, (Dry) river bed/valley, Inselberg/mesa					
		Vec Spa gen Tre In le Bus Bro	to vegetation			
		Max	kimun	n four marks for each – No transfer of marks betwee	en sections.	[6]
	(b)	b) Shallow/widely branching root to catch <u>rain/use rain</u> before it evaporates Plants widely spaced so less competition for moisture Long/deep/tap roots to reach water Small leaves/no leaves/thorns/spines to reduce transpiration/water loss/evaporation Thick cuticle/few stomata/no stomata/waxy/glossy/hairy leaves to reduce transpiration/wa Loss/evaporation Succulents/bulbous trunks/roots to store water Short life cycle/long dormant periods/seeds lie dormant until rains/intermittent rain Low plants avoid wind and reduce transpiration/water loss				
		Des	scripti	on and explanation needed in each case.		[2]

	Page 4			Mark Scheme	Syllabus	Paper
				IGCSE – May/June 2014	0460	02
4	(a)	Bea Sar Ger Lov <u>Lar</u> Clif Lay Diff A lif	nd, ntle sl v tide ndforn f rers o rerent	lope/slopes down to sea/fairly flat/quite flat <u>n Y</u> f rock/sedimentary rock colours/two named colours/two rock types atches of vegetation (on cliff),		
		Maximum 3 marks for each				[5]
	(b)	Abr Und Col Ret	dercu lapse reat,	tion /corrosion/hydraulic action, (or description of proces tting/notches formed/caves formed/erosion of base, /landslip, d action,		[3]
5	(a)	(i)	Tota Tota Tota large Tota	Il population more young/more children Il population fewer middle age/working age Il population more old Il population has largest/modal group at about est/modal group at about 30 years, (not majority) Il population has more dependents Il population has more even age groups	40 years but f	foreigners have
			Or e	mphasis on foreign born population		
			Vario Don	erences needed. ous age ranges are permissible and allow reference 't insist on percentages. 't allow descriptions of the shape of the pyramid.	es to a single age	group. [2]
		(ii)	Chilo Migr Man	w a variety of expressions for the following: dren too young to travel rant workers y migrants are single and don't have children retire and go home/too old to travel		[1]
	(b)	(i)	Incre	ease		[1]
		(ii)	imm	igration exceeds emigration/698 thousand immigra igration growing faster than emigration, = 1 sing total population to increase, = 1	ints and 450 thou	isand emigrants [2]

Page 5	Mark Scheme	Syllabus	Paper
	IGCSE – May/June 2014	0460	02

- (iii) Net migration/immigration emigration is different from the population increase/does not account for the population increase
 Example of a correct pair of calculated figures, (allow without the thousands) birth rate/death rate affect total/natural increase also occurs
- 6 (a) (i) south west
 - (ii) 550m

[1] [1]

(b) Coal deposits are close to the border with China, (allow "China is just over the border") therefore reduced transport costs/easier transport,

China has large/larger/largest population, (not just the figure) therefore high demand, (allow various expressions such as "will buy more")

[2]

(c) Advantages

Financial resources great(er)/profits/investment/money/improved economy, able to develop roads/schools/hospitals/services/infrastructure/produce electricity

Disadvantages

Damage to grazing/grass lands of wild <u>animals</u>/destruction of habitats/<u>loss</u> of wilderness/<u>loss</u> of cold desert

Roads/power grids affect migrating animals/birds

Mines consume water <u>used by people</u>, (connection clear)

Effect of dust on people e.g. health, (connection clear)

Visual pollution of open cast mines

Environmental damage affects tourism

Maximum 3 marks on either

[4]