CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

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)	Adoka	[1]
		(iii)	Bridge	[1]
		(iv)	National monument/place of historic interest/rock painting	[1]
		(v)	Waterfall(s)/weir	[1]
	(b)	(Th (Fa Ma Sm 100 Isla Rap Wa	ws N/NNE en) flows NE/ENE/E, meanders irly) straight sections ny/several tributaries/confluences all tributaries, (Don't allow tributaries leaving the river) om – 300m wide (allow distances between)/wide/widens towards Pote/NE/downstream nds/braided/splits and rejoins oids terfall(s) ntle gradient	[5]
(c) Hill/mountain/high/upland/Jeta hill Plateau/flat(ter) top/gentle(r) top, Steep (sides) 1401m – 1459m (Allow any height in between) Escarpment/scarp Valley(s)		[3]		
	(d)	(i)	244/5 787	[1]
	()	• •	236°	[1]
		()		
	(e)	(i)	Linear	[1]
		(ii)	On/along road/for transport/for access Gentle slope/avoids steep/avoids high Edge of cultivated land Water supply from small rivers Avoids flooding	
			Mark (i) and (ii) independently	[1]
	(f)	(i)	Inyauri river 61 – 63mm from left	[1]
	11/	(ii)	Road, 37 – 39mm from left	[1]
		\·· <i>)</i>	. toda, o. — committee	ניז
		(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) Point on the Earth's surface above the focus

[1]

(b) (i) Line passing between the 7s and 8s north of Yokohama Line passing between the 7 and the 9 near Iwate and Furukawa

[2]

(ii) High intensity close to epicentre/highest 300km from epicentre/lower further away from epicentre

Higher in E/NE/lower in W/SW

Intensities from 9 to 4 (wherever stated)

Concentric zones

Sendai an anomaly

[2]

(c) (i) Close to epicentre/high(est) intensity/intensity 8

Affected by tsunami

Has a large population

[2]

(ii) Far from <u>epicentre</u>/named distance from <u>epicentre</u>

In sheltered bays/protected by land/did not face tsunami

[1]

3 (a) Relief

Flat/gentle slopes/plain (lower areas),

Small hills/small mounds/isolated hills/knolls/kopje,

Plateau/ridge/flat top,

Steep slopes/cliffs,

Boulders/large rocks,

(Dry) river bed/valley,

Inselberg/mesa

Vegetation

Sparse/little/scattered/bare ground/widely spaced/in patches (referring to vegetation generally and not just to trees, bushes or grass)

Trees

In leaf/some not in leaf

Bushes/scrub/shrubs

Brown/yellow/dry/dead/tussocks of grass

Maximum four marks for each – No transfer of marks between sections.

[6]

(b) Shallow/widely branching root to catch rain/use rain 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/water 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

Description and explanation needed in each case.

[2]

Page 4	Mark Scheme	Syllabus	Paper
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4 (a) Landform X

Beach

Sand,

Gentle slope/slopes down to sea/fairly flat/quite flat

Low tide

Landform Y

Cliff

Layers of rock/sedimentary rock

Different colours/two named colours/two rock types

A little/patches of vegetation (on cliff),

Bare rock

Maximum 3 marks for each

[5]

(b) Wave action

Abrasion/corrosion/hydraulic action, (or description of process)

Undercutting/notches formed/caves formed/erosion of base,

Collapse/landslip,

Retreat,

Repeated action,

[3]

5 (a) (i) Total population more young/more children

Total population fewer middle age/working age

Total population more old

Total population has largest/modal group at about 40 years but foreigners have largest/modal group at about 30 years, (not majority)

Total population has more dependents

Total population has more even age groups

Or emphasis on foreign born population

Differences needed.

Various age ranges are permissible and allow references to a single age group.

Don't insist on percentages.

Don't allow descriptions of the shape of the pyramid.

[2]

(ii) Allow a variety of expressions for the following:

Children too young to travel

Migrant workers

Many migrants are single and don't have children

Old retire and go home/too old to travel

[1]

(b) (i) Increase

[1]

(ii) Immigration exceeds emigration/698 thousand immigrants and 450 thousand emigrants immigration growing faster than emigration, = 1

Causing total population to increase, = 1

[2]

Page 5	Mark Scheme	Syllabus	Paper
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(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

[2]

6 (a) (i) south west

[1]

(ii) 550m

[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]