CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

## MARK SCHEME for the October/November 2013 series

## 0460 GEOGRAPHY

0460/42

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.

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		www.dynamicpapers.com Mark Scheme Syllabus Paper				
		IGCSE – October/November 2013 0460		42		
l (a) (i)	Acce Dista Awa Dep Velo Safe	<u>mples</u> essibility/reachable/easy to get to/is it private land ( ance from source/between sites (1) y from human impact/buildings/houses (1) th/width of water/might flood (1) weity/fast flowing/strength of current (1) ety ref wild/dangerous animals (1) near waterfalls/rapids (1)	(1)	[3 × 1 = 3]		
(ii)	Velo	ensure consistency/fairness of results (1) city/depth/width/river conditions may change (1) ather/rainfall might change/on same day should sta	y the same (1)	[1]		
(iii)	Agre Find Prac Test Expe	mples ee methodology on what measurements to take (1) out what does not work/change it/reduce errors (1 ctise fieldwork techniques/get experience/get idea /learn how to use equipment (1) erience of working as a team (1) out how long it would take (1)	)	[2 × 1 = 2]		
(b) (i)	Pole Strin Mea Stud Floa Mea	wers to focus on the diagram. ss/sticks put on <u>each bank of the river</u> (1) ig/ropes stretched between the poles/sticks <u>across</u> sure a fixed/given distance along river/measure 10 lents at each end of the fixed distance (1) t/floating object put in the river (1) sure time float takes to travel distance (1) eat across river/in 3 channels (1)	. ,	[3 × 1 = 3]		
(ii)	Prop Hold Rece Take	flow meter below surface of river/submerge it (1) beller must be facing upstream (1) I in water for sensible/specified time (1) ord reading/read the meter (1) e several readings (1) sulate average (1)		[3 × 1 = 3]		
(iii)	<ul> <li>(iii) Completion of line graph sites 4 (7.8 and 0.60) &amp; 5 (10.5 and 0.</li> <li>1 mark for each correct plot = 2 marks; no marks for lines.</li> <li>No need to put 4 and 5 by plots</li> </ul>			[1 + 1 = 2]		
(iv)	Ove Ove No r OR Beca	othesis is TRUE rall velocity increases 0.36 to 0.78 so does distance rall velocity increases 0.36 to 0.78 as distance incr nark for ref to anomaly at 4; answer must support <u>Hypothesis PARTLY TRUE</u> ause of an anomaly at Site 4 where velocity decrea ause from Site 3 to Site 4 velocity drops/reduc	eases from Site 1- True judgement. ases (1)	-5 (1)		

Page (	)	IGCSE – Octobe	Scheme		Syllabus	Paner
(c) (i)			r/Novombor 201	3	0460	Paper 42
		<b>h of channel:</b> <u>oment</u> : tape measure/ta	pe/metre rule (1 R	eserve)		
	-	Stretch tape measure a ch rope across river the	( )			
	-	<b>h of river:</b> oment: ruler/measuring	stick/string & stone	e/ranging	g pole/stick & rule	r (1 Reserve)
	Rest	Measure depth at inter ruler upright (1)	vals (1)			
		touch river bed (1) sure up to where the wa	ter is wet (1)		[	2 × (1R + 1) = 4]
(ii)	0.22					[1]
(iii)	2.54	(Accept 2.542)				[1]
(iv)	Rive Fast Curr Tape	<u>nples</u> r is deep (1) flowing/strong current ( ent may pull tape downs e may not be long enoug gerous <u>with a reason no</u> t	tream (1) h (1)	above (1	max)	[1 + 1 = 2]
d) (i)	Plot	site 5 on scatter graph ( need for 5)				[1]
(ii)	Velo	<u>two pieces of evidence</u> city increases from 0.3 rom Site 1–5 (1)			adius increases	(1) from 0.05 to
	Hydı	aulic radius increases from site 1–5 (1).	from 0.05 to 0.5	and vel	ocity increases (	(1) from 0.36 to
	<u>Can</u>	use any two sites that s	upport the hypothe	<u>esis</u>		[1 + 1 = 2]
Me Sk	uld be asure etches notatio otogra	s of different recording to across the valley or dow look at cross-profile/slop of five sites (1) ons/labels on sketch/dray phs of five sites (1) changes/differences in	vn the long profile bes/gradient/width wings (1) vegetation in the v	of valley	v(s) (1)	
Ph De		changes/differences in	numan impact on	the valle	y (1)	
Ph De De	scribe	changes/differences in to 3 marks if elaborate			1) or (1 × 2) + 1]	or <b>[1 + 1 + 1 = 3]</b>

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	Page 4				Syllabus	Paper
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2	(a)	Examples Historic growth from centre outwards/planning policy (1) Physical features with e.g. river valley/flat land/coasts. (1) Human features with e.g. railways/roads/accessibility (1) Value of land/price/cost (1) Natural resources with e.g. coal/minerals (1) Conflicting land uses with e.g. housing away from industry (1) Linked land-uses with e.g. low-cost housing close to workplaces/factories (1) High-class residential away from centre/CBD as was more space there (1) [1 + 1]				
	(b) (i		Tall/ Focu Car Ban Larg Ped Histo Pub Hote Air/r Traf	<u>mples</u> /multi-storey buildings/high land values (1) us of roads/railways/bus stations/railway stations/ac parks (1) ks/offices (1) ge shops/department stores/chain stores/shopping of estrianised area/lots of pedestrians/crowded (1) oric/religious buildings (1) lic buildings/city hall/government buildings (1) els (1) noise pollution (1) fic congestion/rush hours/busy roads (1) ket place (1)		ner areas (1) [1 + 1 + 1 = 3]
		(ii)	Sys e.g. Ran e.g.	e mark for type; one for description tematic sample (1) every 100m/regular/equal/specific (1) dom sample (1) pick sites off a map/pick <u>any</u> site (1) random numbers/tables to select sites (1)		[1 + 1 = 2]
	(c)	(i)	Offic Sho	idential = 6 ces = 2 ps = 2 2 correct = 1; 3 correct = 2		[1 + 1 = 2]
		(ii)	Divio	npletion of divided bar graph: order 217 from left OF ding lines = 1 mark ( <u>To be annotated beneath the p</u> ding = 1 mark ( <u>To be annotated by the key</u> )		[1 + 1 = 2]
		(iii)	Sim Easi Map Give Quic <b>Disa</b> Lose May	ee: ple data to plot (1) ier to compare/analyse (1) will be too cluttered with graphs (1) es a clear picture (1) cker/faster to present/draw/map/record/show (1) agree: es detail of different types of building (1) be fairly even split of land use/hard to choose main dit either agree or disagree statements. If do both c		[1 + 1 = 2]

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(iv)		dit 1 max for each of four different land-uses in key.		
	wes <u>Offic</u> Sho	<u>idential</u> areas are near waterfront/on edge of urba t/south/east/west (1) <u>ce</u> area is in the centre of city/in or near CBD/near d <u>ps</u> area is along transect B/south of CBD (1)	ocks (1)	
	CBE	<u>istria</u> l areas are near docks/close to motorway/alon ) (1)	•	south and east of 1 + 1 + 1 + 1 = 4]
(d) (i)	Easi Diffi	<u>mples</u> er/quicker to count number of storeys (1) cult to measure actual height of tall buildings (1) measure ground floor height and multiply by storey.	s (1)	[1]
(ii)	10 C	npletion of sites 3 & 4 on transect C Offices at 3; 4 Industry at 4. ark for each bar correct with correct shading		[1 + 1 = 2]
(iii)	Нур	othesis is TRUE/CORRECT		
(iv)	More Few More	lence: e storeys/>10 storeys for offices OR more storeys/> er storeys/<3 storeys for residential OR less storeys e storeys in offices/shops than residential/industry (* mples	s/<4 storeys for in 1)	[1R + 1 + 1 = 3]
		dings are built higher where land values are high/rel dings are higher where there is less space/relates to		e (1) <b>[1R + 1 + 1 = 3]</b>
(v)	Grou abov	und floor use is often different from upper floors over shops (1)	OR example e.g	. might get flats [1]
		e: Accept max of 2 different topics with 1 elaboration and follow-up points about technique.	of technique on	each OR 1 topic
		.g. Environmental quality survey/litter/air pollution/r ve/2 max for valid topics)	noise pollution/ve	egetation survey.
e.g		<u>ues</u> ose different areas of city, e.g. industrial, residential t questionnaires (1)	l, retail, open spa	ace (1)

Carry out questionnaires (1) Interview people (1)

Carry out bi-polar survey (1)

Internet research must be qualified with a relevant aspect of the topic (1)

[(1 + 3) or 2 × (1 + 1) = 4]

[Total: 30]