UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

# WANN, PapaCambridge.com MARK SCHEME for the October/November 2011 question paper

#### for the guidance of teachers

### 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 must be read in conjunction with the question papers and the report on the examination.

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Cambridge is publishing the mark schemes for the October / November 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Page 2		Mark Scheme: Teachers' versio	n Syllabus	·
		IGCSE – October/November 201	1 0460	200
	Taking samp every nth per	bles at equal distances / regular in rson.	tervals / uniform intervals	s / spec
	Easier becau Quicker to ch	<u>dvantages of random if express it t</u> use sampling sites are evenly space hoose / locate sites (1)		
	May give fair	rer test / less or no bias than rando	om (1)	[2 × 1 = 2]
		n as sand, shingle or pebbles is s t different sites / difficult to distir		
	Could be larg	ne percentages may lead to inaccu ger material such as cobbles / larg material <u>qualified</u> e.g. seaweed /	e stones / boulders (1)	
	Could take a	long time to classify (1)		[1

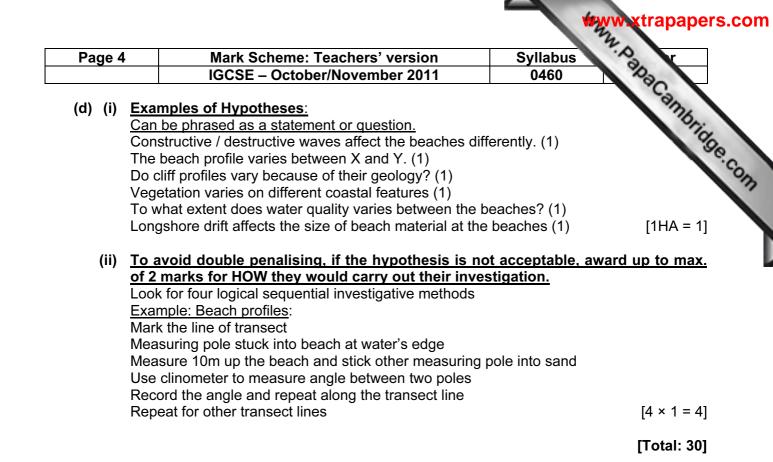
- (ii) Completion of pie graph; 20% shingle, 5% pebbles (<u>Can be either way</u>)
  1 mark for dividing line should be 72 / 18 degrees; <u>allow 2 degree tolerance</u>
  1 mark for shading <u>both</u> slices correctly.
- (iii) Answers must be comparative between X and Y beaches OR between sites on each beach – Beach X (Site 1 / 2) compared with Beach Y (Site 3 / 4). <u>1 mark max for each material.</u>

Sand: higher proportion / percentage at beach X / Site 1 or 2 (1) mainly sand at both sites on beach X but only at one site on beach Y (1)
Shingle: higher proportion / percentage at beach Y / Site 3 or 4 than 1 or 2 at X. (1)
Pebbles: no pebbles at beach X / Site 1 or 2 only pebbles at beach Y / Site 3 or 4 (1). [3 × 1 = 3]

(iv) Hypothesis is true for beach Y – 1 mark reserve. If circle wrong answer then no other marks to be awarded.

Recognition that Site 3 is at LWM or site 4 is near cliff / further from LWM (1) Sand decreases (1) from 75–0% / by 75% (1) Shingle increases (1) from 20–50% / by 30% (1) Pebbles increase (1) from 5–50% / by 45% (1) <u>1 mark max. RESERVED for use of data indicating change for one size of material;</u> <u>must use units i.e. percentages %.</u> [1HA + (2 × 1) + 1 Data mark = 4]

		Martin Contraction of the State	wxtrapape
Page 3	3	Mark Scheme: Teachers' version Syllabus	· Age
		IGCSE – October/November 2011 0460	ToC.
(c) (i)	Lool	c for three different decisions (3 × 1). Examples below.	and.
	Deci meth How How Whic How Wha How How	de on scoring system / range / scale of numbers (1) <u>NOT Carry</u> <u>nod.</u> many survey points to choose (1) long they have to carry it out (1) th types / forms of litter to measure in the survey (1) to choose the location of the survey sites / distance between them (1 t area to be covered at each site (1) n to carry it out (1) frequently to carry it out (1) to divide the work between the students / groups / pairs (1) to agree on what exactly the –2 to +2 scale meant re the litter types ( de on format to record the information (1)	)
		e environmental survey only to do with litter? (1)	[3 × 1 = 3]
(ii)		ing on Fig. 5. Irk each for shading accurate bars at –2 on C and +1 on D <u>for plastic</u>	[2 × 1 = 2]
(iii)		nples: Note – Differences must be comparative. vers must relate to the results NOT overall judgements	
	"no All so Sam	<u>larity:</u> "no wood" scored +2 in both (1) plastic" scored +2 in both (1) cored + 1 (1) e amount of wood / plastic in both (1) egative scores at all / all scores are positive. (1)	
		e <b>rence</b> : glass / paper / other litter scored +1 at site A but +2 at site B ( A has some paper / glass but B has none (1)	1) [2 × 1 = 2]
(iv)	<u>Rese</u> If dis	/ hypothesis is true / correct / impact does vary between beaches erve 1 mark for agreeing with hypothesis (1) agree / partially agree no marks at all. decision made mark correct explanation for 1 max.	
	Bead	tive or no –ve impact at beach X / mostly –ve impact at beach Y (1) ch X / Sites A and B cleaner than Beach Y / Sites C and D (1) ch X / Sites A and B have less litter than Beach Y / Sites C and D (1)	
	lf use	e Sites instead of X and Y must refer to both Sites on that beach.	[1HA + 1 = 2]
(v)	<u>Exar</u>	nples: Look for three separate reasons (Can be opposites on eac	<u>ch beach</u> )
	Bead Bead Bead	ch X has less litter as hotels / officials / council clear up litter (1) ch X has less litter as it has bins (1) ch Y has more litter due to caravan park (1) ch Y has more litter as less likely to have litter bins (1) ch Y has more litter as not cleared up (1)	
		ch Y has more litter due to longshore drift / wind (1)	[3 × 1 = 3



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	Pa	ge 5	Mark Scheme: Teachers' version	Syllabus
			IGCSE – October/November 2011	0460 23
2	(a)	(i)	Examples Census figures (1) <b>NOT</b> carry out a census Electoral roll (1) Estimate by counting the number of houses & multiplyin Use guidebooks (1) Use the internet (1)	syllabus 0460 ng by 2 or 3 (1) Use records (1) [2 × 1 = 2]
		(ii)	NO MARK FOR METHOD CHOSEN Examples:	
			Method A Easy to compare total number of services in different vi Easy to record during fieldwork (1) None will be missed out / wider range likely (1) Needs less preparation (1)	illages (1)
			OR	
			Method B Easy to group for comparing / graphing / classifying (1) Only need to find one example of each service (1) Easier to tick boxes (1) All will be looking for same services (1) Less time-consuming than A (1)	
			ALSO credit if choose one then give disadvantages	s of other. [2 × 1 = 2]
		(iii)	Examples of disadvantages: Lack of consistency in methodology between different p Safety / supervision aspects of two students in a village May be too much for 1 pair / too little for others. (1)	
			Only get results of 1 village (1)	[1]
	(b)	(i)	All three (café, general store, post box) ticked correctly in.	y. Do not need the small x putting [1]
		(ii)	Total = 6.	[1]
		(iii)	Railway station	[1]
		(iv)	Population / number / size of population on horizontal a	axis. [1]
		(v)	Results for Ince (1500 population / 9 types of service) p Ince.	plotted on Fig. 6. <u>No need to label</u> [1]

Page 6		Syllabus	Y.		
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(vi)	Look for three statements that support the decision but	credit use of data to	an.		
()	data not essential; can be 3 statements.	Syllabus 0460 credit use of data to 2 portional (1) tion has most different t	Oni		
	Examples				
	There is a positive relationship / correlation / directly prop	ortional (1)			
	Ince / the largest village / the village with largest popula	tion has most different t	ypes of		
	service. (1)				
	Stanley / the smallest village / the village with smallest population has least different types of service (1)				
	Ince has a population of 1500; Stanley has 40 (1D)				
	Ince has 1500 population – more than twice any other village (1D)				
	Stanley only has 40 population – next highest is 234 (1D)				
	Ince has 9 services; Stanley has 1 (1D) Stanley has only 1 type of service; others all have 3 or more (1D)				
	Albany has second largest population and number of types of service (1)				
	Mead has a smaller population and fewer types of s				
	1(	3 × 1) or (2 + 1D) or 1 +	2D = 3		
(vii)	Examples: allow two separate points or one elaborated o	r one with example.			
ζ, γ	More people / higher population to support higher order services / more services (1)				
	More customers in larger villages / to meet needs of villagers (1)				
	More people / customers so may be more profit / good for business (1) More customers so higher threshold population for extra services (1)				
	Larger villages will also contain lower order services (1)	[(2 × 1) or (1 +	· 1) = 2		
(c) (i)	1. Born in the village (1)				
.,.,	2. Good access to motorway (1)				
	3. Attractive scenery (1)	[3	× 1 = 3		
(ii)	Plotting on Fig. 7 (Retirement 20 + Low Crime rate = 6).	No tolerance here.			
()	1 mark each for accurate bars; no credit for shading.		+ 1 = 2		
(1111)	Hypothesis is incorrect / these are not the main reaso	ons why people live in E	Bethel		
( )	disagree with hypothesis –				
	<u>1 mark reserved for hypothesis.</u>				
	If agree / partially agree with hypothesis no marks at all.				
	If no decision credit correct evidence for hypothesis being incorrect.				
	Evidence should include data or rankings (1 Data mark F	Reserved for identifying r	anks o		
	including data – but can credit up to 2 max)				
	These factors have low rankings / lowest numbers (1)				
	Attractive scenery is rank 6, they were born there is r	ank 4 and peaceful loc	ation is		
	rank 8 (1)				
	24/25% / only a quarter / 28/113 chose the factors in the Other reasons are more important – especially good ac		omont		

Other reasons are more important – especially good access to motorway / retirement / cheaper house prices. (1) 59/60% / over half / 67/113 surveyed chose three more important reasons (1) [(1HA + 2 + 1D) or (1HA + 1 + 2D) = 4]

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(d) Examples	using / don't want to answer / unwilling / privacy	/ too busy (1)	anny.
Not finding	enough people to make the survey valid / relial y be biased by not interviewing people at work	ole (1)	ne (1)

Survey may contain a large proportion of retired people at work / some not at nome (1) Language difficulties / local dialect problems to understand the survey / Q / A (1) Take a long time to survey 113 people / in Bethel (1) [1 + 1 = 2]

## (e) <u>1 mark reserved for suitable investigation into village changes and 3 marks for HOW it could be done. Investigation examples:</u>

<u>Examples:</u> **CHANGE** in buildings / traffic flows / travel patterns / employment / shops & services / community activity / sphere of influence / quality of life –

How it could be done: Focus on how could investigate change with past or into future. Old / current maps (1) Old / current photographs (1) Interviews or questionnaires with residents about past to present (1) Study of local workplaces and past work (1) Observe new housing and previous land-use (1) Record the information (1)

# Allow 1 mark for hypothesis plus 1 max for a suitable investigation that is NOT a change

Examples,

Investigate types of buildings, quality of services, air pollution, noise pollution -

#### If investigation not suitable or none suggested no further marks

Population changes, effect of a ring road, influence of cities, living conditions, services today – any that could NOT realistically be carried out in a village in a MEDC.

[1 + 3 = 4]

[Total: 30]