

International General Certificate of Secondary Education

MARK SCHEME for the November 2004 question paper

### 0460 GEOGRAPHY

0460/01

Paper 1, maximum mark 75

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This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which Examiners were initially instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began. Any substantial changes to the mark scheme that arose from these discussions will be recorded in the published *Report on the Examination*.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the *Report on the Examination*.

CIE will not enter into discussion or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the November 2004 question papers for most IGCSE and GCE Advanced Level syllabuses.

Grade thresholds ta examination.	aken for Syllab	us 0460 (Geo	graphy) in the	November 20	WWW, Baba 04	Cambridge.com
	maximum	mir	nimum mark re	equired for gra	de:	.e.
	mark available	А	С	E	F	Som
Component 1	75	51	30	23	18	

The threshold (minimum mark) for B is set halfway between those for Grades A and C. The threshold (minimum mark) for D is set halfway between those for Grades C and E. The threshold (minimum mark) for G is set as many marks below the F threshold as the E threshold is above it.

Grade A\* does not exist at the level of an individual component.

November 2004



MARK SCHEME

# MAXIMUM MARK: 75

SYLLABUS/COMPONENT: 0460/01

GEOGRAPHY

Paper 1

			1
Page 1	Mark Scheme	Syllabus	
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#### Mark scheme 0460/1 November 2004

#### The features of the marking scheme

www.papacambridge.com Each guestion carries 25 marks. Candidates cannot earn above the maximum marks available within each sub section.

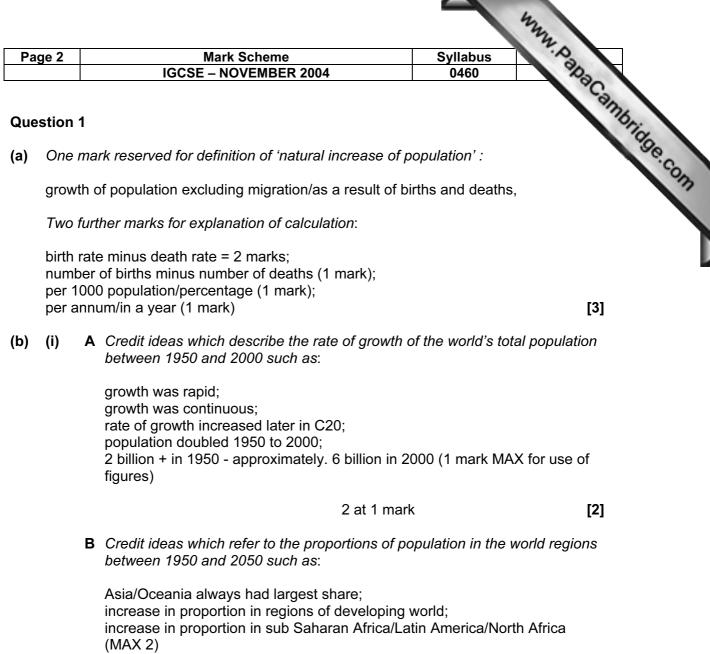
The marking scheme attempts to give guidance about the requirements of each answer and lists a number of responses which will earn marks along with the general principles to be applied when marking each question.

It should be noted that candidates can earn marks if their answers are phrased differently provided they convey the same meaning as those in the mark scheme. THE CANDIDATES DO NOT NEED TO USE THE SAME WORDING TO EARN MARKS.

The notation 'etc.' at the end of an answer in the mark scheme signifies that there may well be other correct responses or examples that can be given credit. Providing the statement is true, relevant to the question asked and not repetition of a previous point made credit should be given.

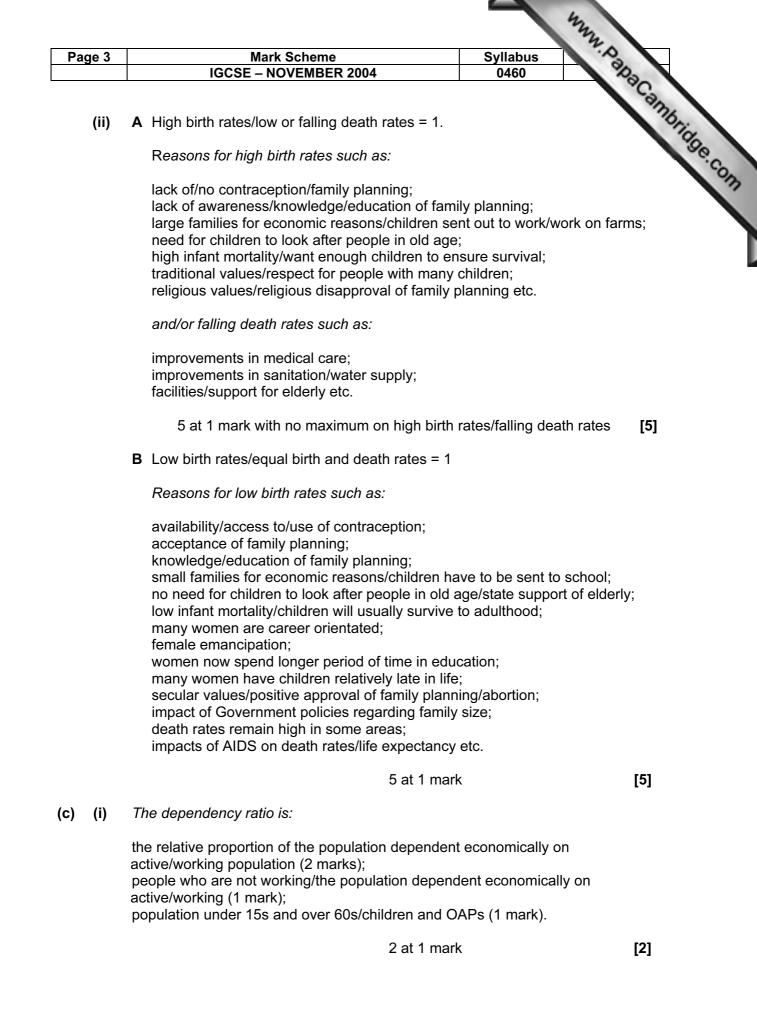
A point made within one sub-section which is an answer to the question set in a different subsection should not be given credit as each sub-section asks different questions which require independent answers.

The mark scheme uses semi colons (;) to separate marks and diagonals (/) to separate alternative answers.



Europe declining proportion throughout the 100 years; N. America similar proportion etc.

4 at 1 mark [4]



Page 4 Mark Scheme Syllabus	2
	Q.
IGCSE – NOVEMBER 2004 0460	20

Candidates should explain why the developments shown in Fig. 2 will create (ii) problems for Japan now and in the future including ideas such as:

Cambridge.com increase in dependency ratio/ageing population/greater percentage of old people; increased spending on older dependants/rise in taxes to support old people need to provide housing/more pressure on housing stock; need to provide medical care/more pressure on medical services; need to provide pensions; need to provide social services; stagnant/declining population growth; labour shortages; possible need to import labour; problems for defence etc.

> 4 at 1 mark or development [4]

> > **TOTAL 25 MARKS**

#### **Question 2**

(a) (i) A settlement hierarchy is:

(a description of/diagram showing) settlements according to size/importance

1 mark [1]

(ii) The relationship shown by Fig. 3 is:

the greater the size the fewer the settlements or reverse

1 mark [1]

(iii) X (tourist resort):

more functions/services than expected for a settlement of that size; population increases greatly with visitors/who require large number of services/functions etc.

2 at 1 mark, with one mark reserved for describing the position on the graph and the other for reasoning.

Y (dormitory settlement):

Services/functions fewer than expected for a settlement of that size; people live but work elsewhere/obtain services elsewhere.

2 at 1 mark, with one mark reserved for describing the position on the graph and the other for reasoning. [2, 2]

			2.
Page 5	Mark Scheme	Syllabus	\$ · · ·
	IGCSE – NOVEMBER 2004	0460	No.

Candidates need to identify the type of functions found in most villages and (iv) explain how they may differ from those in towns. Expect ideas such as:

Cambridge.com villages - low order services, services in towns will be higher order (dev); mainly/entirely convenience goods, whilst towns will offer specialist/comparison goods;

examples of village services (e.g. post office, church/mosque/temple etc.) MAX 1 mark

services which require small threshold population;

services which have small sphere of influence/range, in towns have a greater range/people travel larger distances.

examples of urban services (e.g. market, clothes shops etc.) MAX 1 mark etc.

4 at 1 mark or development

N.B. Points made about services in towns are likely to be credited as development.

maximum 3 marks without an attempt to compare with towns.

[4]

[3]

Functions of a capital/primate city are likely to: (v)

> have a greater number of services; have the largest sphere of influence; be higher order functions/services than other towns or cities; have more administration/government functions; be the main business centre; in LEDCs there will be better educational opportunities; usually the main centre of communications/or examples; larger threshold population etc.

#### 3 at 1 mark

(b) Reasoning is likely to focus on large proportion of land used for businesses/public buildings and/or the relatively small amount of land used for residential purposes. Be prepared to accept any valid reasoning to explain the proportion of any type of land use but do not double credit the same idea related to different land uses e.g. cost of land). Ideas such as:

high cost of land; can only be afforded by shops/offices; need for central position for shops; large sphere of influence; transport focus; links with all parts of the town/city; transport links for shoppers visiting city centre; offices - transport of workers/commuters; few residences - high cost/rent etc.

5 at 1 mark or development

[5]

				WWW.P
Pa	ge 6	Mark Scheme	Syllabus	10
		IGCSE – NOVEMBER 2004	0460	20
(c)				courage the us hour the com

saving transport costs; reduction of accidents; reduction of stress levels; creating more pleasant urban environment; reduction of atmospheric pollution/exhaust fumes; reduction of noise pollution; space saving - less car parks; reward examples used to illustrate up to MAX 2

> 7 at 1 mark or development [7]

> > **TOTAL 25 MARKS**

#### **Question 3**

(i) 3 labels on photograph. (a)

3 a	at 1	mark	
-----	------	------	--

[3]

(ii) Award 2 marks for description of destructive waves and 2 for constructive waves. The differences do not need to be explicitly stated as they will be implied:

## **Destructive wave**

high energy/powerful waves erode break with great force over short distance steeply sloping coasts backwash more powerful than swash/strong backwash short wave length break with vertical ellipse

#### **Constructive wave** low energy/gentle waves

deposition friction with sea bed - break some distance from coast gently sloping coasts swash more powerful than backwash/strong swash long wave length break with horizontal ellipse

4 at 1 mark

[4]

(b) Factors likely to influence wave energy include: (i)

> wind strength; wind duration; offshore profile/presence of wave cut platform; fetch; type of wave; presence of bays/headlands etc.

> > 2 at 1 mark

[2]

age 7		Mark Scheme		Syllabus	\$
		IGCSE – NOVEMBER 20	004	0460	No.
					Cap.
(ii)		2 marks for description of h nces do not need to be expl		and 2 for corra hey will be imp	
	hydrau	lic action:			
	compre	ower of breaking waves/har essing of air in crevices; etreat air expands;	mmer effect;		
	corrasi	ion:			
	attacks	+ boulders/pebbles/sand; s base of cliff; /e effect etc.			
			4 at 1 mar	k	[4]
(iii)	Marks	to be awarded on the basis	of labelling the	following on a	diagram/map:
	waves backwa zig-zag directio	irection; approach beach obliquely; ash at right angles; g movement along beach; on of longshore drift indicate up of beach material where t		ruction	
	•	Do not credit written text alc diagram is acceptable)	one though the u	use of a key lir	nking with a
			4 at 1 mar	k	[4]
(i)	Accept	t either the names of proces	ses or descripti	on:	
	hydrau underc cliff col	hit cliff; lic action/corrasion/corrosio cutting/notch formed; llapse; of cliff line etc.	n (MAX 1);		

#### 4 at 1 mark

[4]

(ii) Description of structure X-Y could include ideas such as:

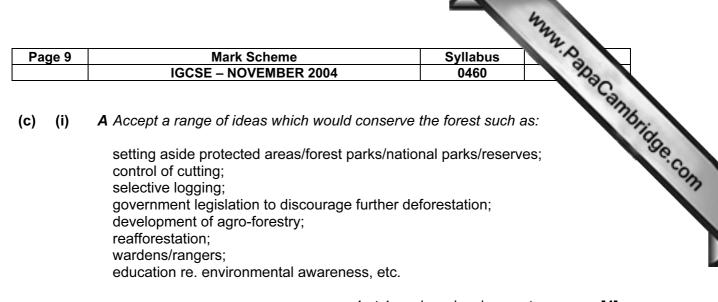
groynes; barriers at right angles to coast,

Explanation of how they may reduce longshore drift such as:

barrier/obstruction to longshore drift; beach material retained/piles up against groynes; as shown on Fig. 5 - movement left to right, etc.

4 at 1 mark with one mark reserved for description and explanation

Paç	ge 8	Mark Scheme IGCSE – NOVEMBER 20	0.4	Syllabus 0460	i de l
		IGCSE – NOVEMBER 20	04	0400	Sec.
Que	stion	4			mbri
a)	(i)	Marks to be awarded on the basis o	of labelling the f	ollowing on Fig	www.papacambridg
		emergents;			
		canopy/upper storey - 20 to 25 m/c second storey/under storey 10 to 1		ру;	
		crowns interlock ;	• • • • •		
		branches found near tops of trees; trunks tall and straight;			
		lianas;			
		epiphytes - anchor on branches an a variety of tree species;	d trunks;		
		very little undergrowth;			
		buttress roots; ferns, herbs, low growing plants;			
		deciduous trees;			
		examples - meranti, rosewood, ma	hogany, etc.		
		(N.B. Credit written text alone to M Fig. 6 is acceptable for full m		e use of a key	linking with a
			5 at 1 mark	< c	[5]
	(ii)	Reasoning such as:			
		seasonal rhythm - lose/replace leav			
		high temperatures/rainfall - many s high temperatures/rainfall - rapid gr			
		large trees compete for sunlight;			
		buttress roots for support as trees g canopy - leaves angled to catch as			
		drip tips to shed water;		0000000	
		smaller trees below -less sunlight; forest floor - little light/undergrowth			
		lianas use trees in search for sunlig			
			3 at 1 mark	¢	[3]
(b)	(i)	Gabon			
			1 mark		[1]
	(ii)	Central African Republic			
			1 mark		[1]
	(iii)	Northern/central/eastern areas			
			1 mark		[1]



## 4 at 1 mark or development [4]

**B** Accept a range of ideas which explain why conservation would be difficult such as:

profit motive; expense of/cannot afford measures; lack of awareness of significance of forest destruction; clearance for commercial agriculture/ranching; increase in logging (legal and illegal); large areas to supervise; international problem; demand for land for industry; demand for land for mining; demand for land for roads/communications; demand for land for reservoirs; population growth/use of areas for resettlement; increased world demand for timber etc.

#### 4 at 1 mark

[4]

- (ii) Credit range of possible impacts of the removal of tropical rainforest on climate, rivers and plant species, with 1 mark being reserved for each of A, B and C.
  - A Impacts on climate such as:

higher world temperatures/global warming; alteration of global climatic patterns; drought in some areas/more rain in others; impact on ocean currents, and consequent alterations of temperature (dev); etc.

B Impacts on rivers such as:

loss of roots holding soil; loss of interception/less trees to absorb water; rapid run-off; soil erosion; soil carried to rivers/blockage/silting - flooding, etc.

IGCSE - NOVEMBER 2004     0460       C Impacts on plant species such as:     loss of valuable species of plants;       loss of valuable species of plants;     loss of biodiversity;       interference with nutrient cycle;     destruction of habitats, etc.       6 at 1 mark or development     [       TOTAL 25 MARI     TOTAL 25 MARI       6     Accept ideas which stem from Fig. 9 only to suggest why many people from the UK may be attracted to Montego Bay such as:       higher temperatures;     development by reference to temperature statistics (MAX 1)       greater number of sunshine hours every month;     development by reference to sunshine statistics (MAX 1)       greater number of sunshine hours every month;     at 1 mark       Ideas such as:     3 at 1 mark       amount/frequency of rainfall;     1 mark       hurricane season/strong winds etc.     1 mark       Imreased accessibility;     greater affluence;       increased accessibility;     greater affluence;       increase in informational dowrism such as:     greater affluence;       increases in transport technology/infrastructural deve	age 10	Mark Scheme		Syllabus	Q.	
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6 at 1 mark or development		e	6 at 1 mark	c or developm	ent	[6]

Page 11	Mark Scheme	Syllabus	Q.
	IGCSE – NOVEMBER 2004	0460	1020
(c) (i)	<b>A</b> Examples of the ways in which tourism has such as:	changed the natural en	vironme. Philipping
	destruction of natural environment/ecosyste		.C.

> destruction of natural environment/ecosystems; loss of species/aquatic life/plants etc; loss of habitat; visual pollution/landscape change; water/sea pollution; pressure on natural supplies of water/lowering of water table; preservation of areas of beauty/National Parks etc.

Allow an example mark to MAX 1 provided example is not taken from Fig. 10

4 at 1 mark or development [4]

B Examples of the ways in which tourism has changed the way of life for local people such as:

increase in land prices; congestion/overcrowding; increased traffic; increased noise; increased crime rates/social problems 0r examples; increased living expenses for local people; seasonal unemployment; exploitation of workforce; loss of cultural heritage; commercialisation; may divert attention away from other activities e.g. agriculture; loss of farmland; pressure on/contamination of limited water supplies; loss of fishing rights/grounds etc.

Allow an example mark to MAX 1 provided example is not taken from Fig. 10

4 at 1 mark or development [4]

Mark Scheme IGCSE – NOVEMBER 2004 One mark reserved for named example of tou	Syllabus 0460		abaCan
One mark reserved for named example of tou	rist area (includir		Can
from Fig. 10) along with benefits such as:		ig exampl	les tai antitude
income; employment directly/earn money;			20
	income; employment directly/earn money;	income;	income; employment directly/earn money;

other related employment - building, transport etc; development of area; diversifies economy; preservation of cultural heritage; improved standard of living; better cultural understanding; preserves natural environment - forest recreational parks; can use infrastructure created for tourists; improved transport facilities increased market for local agricultural products/fish; boost to local craft industries;

> 7 at 1 mark or development [7]

> > **TOTAL 25 MARKS**

#### **Question 6**

Stages of the process of hydro electricity generation such as: (a) (i)

> water in reservoir/dammed; flows through penstock/turns turbines; generator (connected to turbines); to transmission lines/transformer raises voltage

> > 4 at 1 mark [4]

(ii) Physical features such as:

> heavy/reliable/high rainfall; well distributed rainfall; snow/ice fields - spring melt; fast flowing water/steep gradients; narrow deep sided valley/waterfall/glaciated valley; natural lake; impervious rock; large drainage basin above power station; large number of streams feeding drainage basin etc.

> > 4 at 1 mark [4]

ge	13	Mark Scheme	Syllabus	A.
<u>.</u>		IGCSE – NOVEMBER 2004	0460	2Da
				S
(	iii)	Objections such as:		un Papacar
		drowning of valley for reservoir;		
		dam and power station intrusion into rural area/ loss of agricultural land;	visual pollution;	
		may force people to migrate away from area/vil	lages flooded;	
		communications disrupted; temporary impacts on tourism;		
		loss of habitats;		
		problems during building phase (e.g. noise/dus vehicles etc.)	t/increase in movemen	t of heavy
		transmission lines - visual pollution etc.		
		3 at 1 r	nark	[3]
(	i)	ldeas such as:		
		cheap/other fuel sources too expensive;		
		lack of other power sources; readily available;		
		lack of/suspicion of technology;		
		tradition etc. 2 at 1 r	mark	[2]
		2 at 11	liain	[2]
(	ii)	Problems for people and the environment such	i as:	
		time consuming;		
		health problems for collectors/heavy loads; smoke/health problems;		
		lost production/through sickness and death;		
		carbon dioxide/oxygen imbalance; enhanced greenhouse effect/global warming;		
		loss of tree cover;		
		increased aridity/loss of shade;		
		soil erosion; dung would otherwise fertilise soil, etc.		
		-	mark or development	[6]
		Reasons for restricted development of alternat	ive sources of energy s	such as:
		newer energy sources cannot yet meet demand	ds;	
		some in early stages of development; limited technology in some world areas;		
		expense of development;		
		more expensive to produce than traditional fuel	S;	
		HEP limited by siting factors; wave/tidal power confined to coastal areas;		
		geothermal to volcanic regions;		
		problems with transmission; much of industry/transport geared to using foss	il fuels etc.	
		6 at 1 r	nark or development	[6]

**TOTAL 25 MARKS**