UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the November 2005 question paper

0460 GEOGRAPHY

0460/01

Paper 1 maximum raw mark 75

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*.

The minimum marks in these components needed for various grades were previously published with these mark schemes, but are now instead included in the Report on the Examination for this session.

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

CIE is publishing the mark schemes for the November 2005 question papers for most IGCSE and GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



Page	Page 1 Mark Scheme Syllabus IGCSE – November 2005 0460			
Questi	on 1			-
(a)(i)		land/Botswana/Zimbabwe		
()()		1 mark		(1)
(ii)	A. 20	B. Zambia		
		2 @ 1 mark		(2)
(iii)	should rates of percer percer HIV/A (N.B.	dates should be able to compare the two countries d link together two discrete accounts. Ideas such as: of infection higher in Botswana/lower in Tanzania; ntage of orphans higher in Botswana/lower in Tanzani ntage of orphans increasing more rapidly in Botswana IDS is a serious issue in both countries etc Allow figures which could be used as alternatives to opment marks)	a; ;	
		3 @ 1 mark		(3)
(iv)	econo reduce reduce require which discou	references only for impact on economy such as: my will fall/decline/be damaged es productive capacity of individuals/people cannot wo es levels of food produced; es much investment in health care; prevents investment in other aspects of development urages development of (tourism, industry etc) urages foreign investment etc		
		4 @ 1 mark or development		(4)
(b)	Credit reduct large 10% c large slight	references only for impact on population size and s development for interpretation of statistics. Ideas suc- tion in total size of population; almost halved (dev); reduction in 40-60 year old age group; reduced to abo of what it would have been without AIDS (dev); reduction of 0 to 10 age group; approx halved (dev); y greater impact on female population etc idency rate increased etc	h as:	
		3 @ 1 mark or development		(3)
(c)	suppo	dates should describe the ways in which the depend rted in both developed and developing countries. MUM for developed/developing countries.		
	Expec	t methods used in developed countries such as:		
	Pensie Family Health Welfa Shelte	ation/state; ons; y benefits; n care; re services; ered housing/old peoples homes; education/free education etc		

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Expect methods used in developing countries such as:

(extended) family; self help groups; begging; informal economy; voluntary organisations/charities

5 @ 1 mark or development

(5)

(d) Accept a wide variety of strategies. Candidates could refer to examples they have studied, if so these can be credited as development marks (MAX 2) if linked with appropriate points [e.g. reduce opportunities for migrant workers; to prevent males in Botswana picking up disease from unprotected sex in other countries of Southern Africa (dev)] but do not credit examples in isolation.

Accept general ideas such as:

innoculation; use of drugs/antibiotics; better hospitals/clinics/health care/more doctors sex education within schools; clean water; improved sanitation;

Or ideas specific to disease such as AIDS/HIV such as:

theatre groups/road shows to educate re dangers of unprotected sex; poster campaigns/TV adverts; issuing of free condoms; legislation against prostitution; policing in order to implement legislation; free syringe exchange for drug addicts; careful screening of blood transfusions; reduce need for migrant workers/legislation; better health treatment to reduce early deaths from diseases to which AIDS victims are less resistant; cut price of drugs being developed to slow the growth of the AIDS virus etc

7 @ 1 mark or development

(7)

TOTAL 25 marks

Page 3		Mark Scheme	Syllabus	Paper
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Questic	on 2			
(a)(i)	Town/city/built up area			
		1 mark		(1)
(ii)		razil/Argentina/Chile/Australia/New Zealand/UK/ Germany/Sweden etc		
	B. A	frica		
		2 @ 1 mark		(2)
(iii)		idates should compare here though we should line ete accounts. Credit development for interpretation o as:		
	Great	n population increasing in both types of country; er proportion living in urban areas in developed countr r rate of growth in developing countries; tripled in 60 ye		>
		3 @ 1 mark or development		(3)
(iv)	Candi	idates should suggest reasons for the differences in gr	owth rates.	
	Ideas	such as:		
	increa amou	ss started much earlier in developed countries; ases in developing countries as industry/commerce dev nts of migration decline in developed countries as run developed; ercrowding in urban areas puts off potential migrants;	•	
		people looking for attributes of rural lifestyle in develop minance of counter urbanisation etc	oed countries	
		4 @ 1 mark or development		(4)
(b)(i)	Evide	nce such as:		
	many use o open	unmade roads; temporary/self-built houses/few concrete houses; f standpipes for water/no running water; drains/no proper sanitation; on undesirable land/close to marshes/factories etc		
		3 @ 1 mark		(3)

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(ii) Candidates can suggest reasons for migration by using any combination of pull and push factors but avoid double credit for opposite statements. Expect to see discussion of issues such as:

availability of work; higher wages; availability of food supplies: education; health care; natural events 0 must state type; bright lights syndrome; political/religious persecution; wars and conflicts; better standard of living; better sanitation; better water supplies; mechanisation of farms; land fragmentation; joining family members etc

5 @ 1 mark or development

(5)

(c) Candidates could refer to improvements instigated by local authorities, national government, charities or local groups in any combination. They could refer to examples they have studied, if so these can be credited as development marks (MAX 2) if linked with appropriate points [e.g. self help schemes; as in the Rocinho area of Rio de Janeiro (dev)] but do not credit examples in isolation.

Expect ideas such as:

installation of mains water; laying of sewage pipes/building of sewage works; infrastructural development; increase of local authority housing stock; improvement of communications; regular disposal of refuse; self help schemes; site and services schemes; education in building skills; provision of low cost building materials; building of schools; building of clinics/hospitals; charitable initiatives working with street children etc

7 @ 1 mark or development

(7)

TOTAL 25 marks

Page	Page 5 Mark Scheme Syllabus IGCSE – November 2005 0460			Paper 1
Questi	Question 3			
(a)(i)	a volc	cano which is likely to erupt/has recently erupted		
		1 mark		(1)
(ii)	A. la	ava (flow)		
	B. a	sh (fall)		
		2 @ 1 mark		(2)
(iii)	Candi	idates should identify impacts on people such as:		
	death loss o home need dama	fic health issues; s/injury; of possessions/homes/cars; elessness; to evacuate area; ge to workplaces/unable to earn a living; of agricultural produce/damage to farmland; omic implications of rebuilding etc		
		3 @ 1 mark		(3)
(iv)	Ideas	such as:		
	evacu redire halting sprayi	oring/warning population; uation; ecting lava flow /by digging diversion canals; g advance by dropping concrete slabs into flow; ing water onto flow ation re procedures/drills etc		
		4 @ 1 mark		(4)
(b)(i)		idates should identify differences here though we sho iscrete accounts. Ideas such as:	ould link together	
	1983	983 lava flow was more extensive; lava flow to S/SW whereas 1923 to N/NE; flow from higher point; 3340 metres, 1923 from 2153 n	netres (dev) etc	
		3 @ 1 mark or development for illustrati	ve use of figures	(3)
(ii)	margi	idates should explain why volcanoes are formed ns. Credit written answers or information included as am (do not double credit here). Expect reference to ide	s part of labelled	
	subdu greate friction destru build u magm	s converge; uction of one plate (oceanic); er density of oceanic plate; n/heating; uction of oceanic plate/turns to magma/melts; up of magma/pressure; na rises through lines of weakness; solidifies over successive eruptions to create volcano;		
		5 @ 1 mark or dovelopment		(5)

5 @ 1 mark or development

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(c) Candidates should give reasons why people choose to live close to active volcanoes. They could refer to examples they have studied, if so these can be credited as development marks (MAX 2) if linked with appropriate points [e.g. yields of crops will be increased by fertile volcanic soils; as they are in the rice fields on the slopes of Mount Fuji (dev)] but do not credit examples in isolation.

Expect ideas such as:

fertile volcanic soils; geothermal power; attract tourists/tour guides/souvenirs etc; resource extraction/or examples eg sulphur; vulcanologists live close by to study volcanoes; they have lived there all their lives/sentimental attachment; close to family/friends; work/education in area; cannot afford to move; pressure of living space; confidence in prediction/safety; willing to take the risk etc

7 @ 1 mark or development	
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-OT		~ -	
υ	AL	25	marks

(7)

Question 4	4
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(a)(i)	1201 to 1399 mm
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1 mark	(1)
I IIIair	

(ii) A. Area of land drained by a river and its tributaries.

B. Area of high land which surrounds drainage basin/separates drainage basins

(iii) Ideas such as:

discharge will be greater at Y/smaller at X; the river has gathered water from a larger area at Y; tributaries will have joined by Y/X is only a tributary; Y is a higher order stream/river X is nearer the source/Y is further downstream etc

(iv) W shows a delta (1 mark reserved)

the delta is formed as a result of: deposition of sediment/alluvium by river; as speed of flow slows down/cannot carry load; absence of major tidal flows/currents; impact of salt water causes further deposition; distributaries form etc

3

4 @ 1 mark or development (4)

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(b)(i) Features should ideally be evident from photographic evidence though some observations may be 'by implication'. No maximum mark on river/valley.

Ideas such as:

steep sided valley; narrow valley floor/river occupies all valley floor/no flood plain/V-shaped valley; narrow river/stream; steep long profile; irregular long profile; contains rock materials; white water/appears fast flowing; waterfall etc

3 @ 1 mark

(ii) Candidates should explain how the processes have shaped the landscape rather than simply describing its features or naming the processes. Credit written answers or information included as part of labelled diagrams (do not double credit here). Expect reference to the effects of processes such as:

weathering processes such as – freeze thaw; biological etc; mass movement; river erosion processes such as corrasion; corrosion; hydraulic action etc

No maximum for weathering/mass movement/river erosion.

5 @ 1 mark or development

(5)

(3)

(c) Candidates should describe both the advantages and disadvantages for people of living on a flood plain. Credit up to 5 MAXIMUM for advantages/disadvantages. Candidates could refer to examples they have studied, if so these can be credited as development marks (MAX 2) if linked with appropriate points [e.g. people can expect high yields from crops grown; as they obtain on the fertile flood plains of the river Nile (dev)] but do not credit examples in isolation.

Expect advantages relating to issues such as: agriculture/fertile soils; water fro irrigation; communications (by river; by road/rail on flood plain); river is source of food/fish; flat building land;

Expect disadvantages relating to issues such as: flooding; instability of foundations; need to bridge river; often densely populated/competition for space; water borne diseases etc

7 @ 1 mark or development

(7)

TOTAL 25 marks

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Questi	on 5			-		
(a)(i)		e to canal/ease of transport of raw materials/products				
*		1 mark		(1)		
(ii)	A.	Neder-over-Heembeek				
	В.	Evere-Brussels				
		2 @ 1 mark		(2)		
(ii)	Ideas such as:					
	need for bigger premises/unable to expand in CBD; need for less expensive property; need for ground floor premises/access; movement away from CBD congestion etc					
		3 @ 1 mark		(3)		
(iv)	Candidates should give reasons for the development of science parks in Brussels and location within the city. No maximum mark on either aspect. Expect ideas such as:					
	locate airpoi locati cheaj greer	mity of university/research centre; ed within range of many major markets; rt available locally/easy of international travel; ion close to ring road facilitates road transport; per land close to edge of city; nfield sites offer pleasant working environment; y of land available/more space than in centre				
		4 @ 1 mark or development		(4)		
(b)(i)	Ideas	s such as:				
	chear plenty poter large	ost land; p labour supply/low wages; y of available workers; ntial workers are skilled/educated; potential market in Western Europe; of gathering components from European manufacturer	s etc			
		3 @ 1 mark or development		(3)		
(ii)		Candidates should explain the advantages of the location of car assembly plants in Eastern Europe to the local people. Ideas such as:				
	more people in employment; higher wages; improvements in infrastructure; rising standard of living or specifics (e.g. housing/sanitation); improvement in public services or specifics (e.g. health care/education); greater demand for products of local industry; multiplier effect; develops technology within the country etc					
	No M	IAXIMUM on any one factor, providing adequate develo	pment of points.			
		5 @ 1 mark or development		(5)		
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(c) Be prepared to accept reference to any type of craft industry, in any country, and at any scale. Candidates should both describe and explain the factors which encourage the development of the industry. They could refer to examples they have studied, if so these can be credited as development marks (MAX 2) if linked with appropriate points [e.g. one factor is the large market for traditional products created by tourism; as is the case in Kenya where tourists want to buy wooden carved animals (dev)] but do not credit examples in isolation.

Expect reference to factors which encourage the development of craft industries such as:

local/easily available raw materials; cheap raw materials; little capital needed for set-up; mainly done by hand/simple machines are used; skilled labour supply; local traditions; local market; market from tourism; government incentives; charities/aid organisations encourage development; governments want to retain traditional skills/culture etc

No MAXIMUM on any one factor, providing adequate development of points.

7 @ 1 mark or development (7)

TOTAL 25 marks

Question 6

(a)(i) Wilderness areas

- (ii) A = Dixie (National Forest)
 - B = Paria-Hachberry

2 @ 1 mark

(iii) Candidates should identify changes here though we should accept a description for 2000 alone as such answers imply changes which have occurred. Changes such as:

building of new highways/roads; damming of Colorado river/creation of Lake Powell; declining wilderness areas; creation of Glen Canyon National Recreation area; Glen Canyon City built etc

3 @ 1 mark

(3)

(2)

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		dates should suggest reasons for the attractions s. Expect ideas such as:	of the area	for	
A		tions of National Park/National Forest/National Rec ames);	reation Area	(or	
A	.arge Attrac Scenie	areas of wilderness/unspoilt land/solitude; tions such as wildlife/vegetation; c attractions/beautiful countryside; ies such as hiking/climbing/cycling etc;			
		4 @ 1 mark or development		(4)	
(b)(i) A	Accep	t arguments such as:			
c g d v	reatio jenera levelo value	on of jobs; on of wealth within the local area; ates further economic growth/multiplier; opment of the infrastructure/or examples; to American economy/export of coal; reservation is a cultural attraction etc			
		3 @ 1 mark or development		(3)	
(ii) E	Expec	t reference to ideas such as:			
d n d tř	lama noise lust/a hreat ncrea	impact/destruction of landscape; ge to habitats; pollution from mine; tmospheric pollution; to species; sed traffic levels create noise/danger; ness areas are in short supply/in need of protection et	с		
		5 @ 1 mark or development		(5)	
n tr n	Candidates should choose an area threatened by tourism, agriculture or manufacturing industry. Be prepared to accept reference to any example of their chosen economic activity, in any country, and at any scale. Candidates need to refer to an example they have studied, for which one mark is reserved .				
w re e e e f f b lo u	vildlife estric by dea ensuri encou educa educa emplo estric bannir bow lev ising	burism in Botswana: e resources can be protected by encouraging sustainating tourist numbers; aling with a limited number of tourist firms; ng wildlife is conserved; ng vegetation/habitat is not cleared for tourist develop ragement of ecotourism; tion of tourists regarding environmental issues; ying people to clear up regularly in sensitive areas; ting access to sensitive areas; ng tourists from hunting activities; vel building developments; local labour; local provisions etc		y:	
	lo M oints	AXIMUM on any one aspect, providing adequate	developmen	t of	
		7 @ 1 mark or development		(7)	
			TOTAL 2		