UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the November 2005 question paper

0680 ENVIRONMENTAL MANAGEMENT

0680/01

Paper 1 (Alternative to Coursework), maximum mark 60

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.

UNIVERSITY of CAMBRIDGE International Examinations

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Page 1			Mark Scheme	Syllabus	Paper						
			IGCSE – NOVEMBER 2005	0680	1						
1	(a)	(i)	Sub-Saharan Africa			[1]					
		(ii)	Direct relationship or described (either way	round)		[1]					
		(iii)	Middle East OR South East Asia			[1]					
	(b)	(i)	birth rate; death rate; infant mortality; calorie intake; car/other 'luxury 'item ownership people per doctor; access to clean water; child literacy or equivalent (ignore direction all cases);								
		(ii)	quality of life reduced (or a relevant example given); because of more mouths to feed/overcrowding/lack of housing/less jobs OR								
			quality of life increased (or a relevant example given); because increased demand stimulating production! helps if country is underpopulated etc.								
	(c)	and Cre	likely approach is that present world trade conditions are that a liberalisation/freeing up of trade is like to level up th dit examples:	he playing fie	d.	ies ,					
			(er) should pay higher/fairer price to poor(er); for goods/se e of answers generally to get max 1	ervices; to inc	rease/wealth	[3]					
2	(a)	(i)	4 correct for 2, 2/3 correct for 1, 1 or 0 correct, 0 Do not need shading if right way round, but if not which is which must be made clear some way								
		(ii)	Better access in urban areas/vice versa for 1;			[1]					
			More finance/money in urban/urban more developed/more people; Rich people in urban help to ensure clean water; OR								
			Answer in terms of height of bars rural vs urban; Further detail from graph (e.g. correct figures or derived figures (e.g. 'more than do quoted								
	(b)	many common diseases are water-borne;									
	. ,		ect eg;			101					
			nonella/diarrhoea/cholera/dysentery/typhoid/ alaria/dengue/bilharzias other water bred diseases			[2]					
	(c)		eased awareness/education; so people do not contamination te controls on pollution; e.g.s; development	te; with huma	n/human crea	ted					
		boili	ng water; kills germs; avoids disease								
		puri	fying; boiling; filtering; kills germs; avoids disease								
		Villa	ige pump; pipes; clean water								
		Mor	ney; for dams or similar; pipe clean water								
		exa	ST develop one strategy, but this can be interpreted at dif mples above, e.g boiling can be a strategy and then deve also be and then filtering and boiling are the developmen	loped as show							

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Dogo 2		Mark Scheme Syllabus Paper																
	Page	2	+		100				R 2005			- 5	Syllabu 0680	IS	P	<u>aper</u> 1	\neg	
3	(a)	(i)	near/nort coast; de		f etc. b	out NC)T on/	/equa	tor; ne		•	inlan		coas	stal/a		rom	[2]
		(ii)	January					-										
			July	so	il dry;	high v	vinds	blow	away;									[3]
	(b)	min	overuse of the land/overgrazing/overstocking/deforestation/loss of minerals/ploughing/monoculture/using artificial fertilisers; relevant explanation										[2]					
	(c)	wou root con ben crop ben graa	nting shelt uld have th ts of the tr tour ploug hefit;; p rotation; hefit;; zing rotation	the e trees ghing i;	ffect o would	of redu	icing t	the fo	rce of	the wi	nd;							[3]
		ben	efit;;															[3]
4	(a)	(i)	A Photos B Respira															[2]
	(b)	(i)	lt would i	incre	ease/ri	ise etc	c. owt	te										[1]
		(ii)	world ten carbon d sea level ice caps	dioxio el wo	de trap uld rise	os hea e/coa	stal flo	oding	g ® flo				ffect					[4]
	(c)	repl inte set	itat loss/fo lanting/aff rcropping up parks/o ansion of	fores g type /cons	station e idea: servati	ideas s; ion are	s; eas ei	tc. an	y 2 for	or equi	v.)/reduo	ced a	abunda	ance	for			[1] [2]
5	(a)	(i)	crust; ma	antle	e; core	!												[3]
		(ii)	crust/A															[1]
		(iii)	ANY two	o cor	rect fo	orallo	ow fos	ssil fu	el deriv	ved fu	els (petr	ol, di	esel e	etc.)				[1]
	(b)	(i)	acid rain; smog; eff land degr habitat lo oil slick; e	ffect, grada oss;	, or ation ir develo	n getti opmer	ng fue		ect									
			health; de															[2]

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Page 3		3	Mark Schen		Syllabus	Paper				
			IGCSE – NOVEMB	ER 2005	0680	1				
		(ii)	geothermal; hot water used to heat houses/eq cold water pumped down and hea generate steam; turns turbine; generates electricity; pylons carry same;		Q	uestion total	[3] [10]			
6	(a)	hote san tree dun sew	atened mangrove/wetland areas; els built; d quarried from the beaches; s felled; es levelled; age discharge ;				101			
		Des	truction of habitat/fragile eoclogy				[3]			
	(b)		The practice of touring natural ha impact; benefit local economy creation of National Parks; creation of wildlife reserves; make wildlife (owtte) the reason f		nt to minimise	e ecological	[2] [2]			
	(c)	end	ney raising; education; awareness angered) wildlife/animals/habitats	• ·	tion of qualifie	ed (e.g				
		IUC Col	N ation of knowledge; publication of	threatened species lists	s; influence go	overnments				
		CIT Cor	ES Itrols trade between nations; of an	imals; plants						
		UN	ΞP							
		Asl	JCN							
		Ma	accept similar points to WWF for	IUCN or UNEP but CIT	ES more spe	cific.	[3]			