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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.

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	Page	1	Mark Scheme	Syllabu 7. S. r	
			IGCSE – NOVEMBER 2005	0680	
1	(a)	(i)	Sub-Saharan Africa	Syllabu 0680 round)	[1]
		(ii)	Direct relationship or described (either way	round)	2
		(iii)	Middle East OR South East Asia		COM
	(b)	(i)	birth rate; death rate; infant mortality; calorie intake; car/o people per doctor; access to clean water; child literacy of all cases);	r equivalent (ignore direction ir	
		(ii)	quality of life reduced (or a relevant example given); beca feed/overcrowding/lack of housing/less jobs OR		-
			quality of life increased (or a relevant example given); be stimulating production! helps if country is underpopulated		[2]
	(c)	and	likely approach is that present world trade conditions are that a liberalisation/freeing up of trade is like to level up t dit examples:		3 ,
			(er) should pay higher/fairer price to poor(er); for goods/se e of answers generally to get max 1		[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 some way		[2]
		(ii)	Better access in urban areas/vice versa for 1;	I	[1]
			More finance/money in urban/urban more developed/mo Rich people in urban help to ensure clean water; OR	re people;	
			Answer in terms of height of bars rural vs urban; Further detail from graph (e.g. correct figures or derived quoted		e') [2]
			quoteu	I	[4]
	(b)		iy common diseases are water-borne; ect eg;		
		saln	nonella/diarrhoea/cholera/dysentery/typhoid/ alaria/dengue/bilharzias other water bred diseases	I	[2]
	(c)		eased awareness/education; so people do not contamina te controls on pollution; e.g.s; development	te; with human/human created	1
		boili	ng water; kills germs; avoids disease		
		puri	fying; boiling; filtering; kills germs; avoids disease		
		Villa	ge 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 shown but purifying	[3]

	Page	2	Mark Scheme Syllabu	r
	3 -	_	IGCSE – NOVEMBER 2005 0680	
3	(a)	(i)	Mark Scheme Syllabt IGCSE – NOVEMBER 2005 0680 near/north of etc. but NOT on/equator; near/on tropics; inland/non coastal/aw coast; deserts/savanna/desert edge/semi desert; any 2 January heavy rain; washes soil away	hbridge
		(ii)	January heavy rain; washes soil away	·con
			July soil dry; high winds blow away;	[3]
	(b)	min	ruse of the land/overgrazing/overstocking/deforestation/loss of erals/ploughing/monoculture/using artificial fertilisers; vant explanation	[2]
	(c)	wou root con ben crop ben graa	ating shelter belts of trees between fields; and have the effect of reducing the force of the wind; s of the trees would hold the soil together tour ploughing; efit;; o rotation; efit;; zing rotation; efit;;	[3]
4	(a)	(i)	A Photosynthesis B Respiration	[2]
	(b)	(i)	It would increase/rise etc. owtte	[1]
		(ii)	world temps would rise; carbon dioxide traps heat/long wave radiation/greenhouse effect sea level would rise/coastal flooding ® flooding unqualified; ice caps melting/expansion of water	[4]
	(c)	repl inte	itat loss/food shortage/reduced diversity (or equiv.)/reduced abundance for anting/afforestation ideas; rcropping type ideas;	[1]
			up parks/conservation areas etc. any 2 for ansion of any one can also get 3rd mark	[2]
5	(a)	(i)	crust; mantle; core	[3]
		(ii)	crust/A	[1]
		(iii)	ANY two correct forallow fossil fuel derived fuels (petrol, diesel etc.)	[1]
	(b)	(i)	acid rain; one relevant effect, or smog; effect, or land degradation in getting fuel; effect habitat loss; development, or	
			oil slick; effects, or health; development or	[2]

Pag	ge 3	3 Mark Scheme Sylla	
	-	IGCSE – NOVEMBER 2005 068	2 22
	(i	 (ii) geothermal; hot water used to heat houses/eq.; cold water pumped down and heated; generate steam; turns turbine; generates electricity; pylons carry same; any 2 	The cambridge. [3]
			Question total [10]
б (а	h s tr d s	threatened mangrove/wetland areas; hotels built; sand quarried from the beaches; trees felled; dunes levelled; sewage discharge ; Destruction of habitat/fragile eoclogy	[3]
(k	b) (i	 (i) The practice of touring natural habitats; in a manner meant to mi impact; benefit local economy 	nimise ecological [2]
	(i	 (ii) creation of National Parks; creation of wildlife reserves; make wildlife (owtte) the reason for tourism 	[2]
(c	'n	WWF money raising; education; awareness; influence govts; protection of o endangered) wildlife/animals/habitats etc.	ualified (e.g
		IUCN Collation of knowledge; publication of threatened species lists; influer	ce governments
		CITES Controls trade between nations; of animals; plants	
	U	UNEP	
	A	AsIUCN	
		May accept similar points to WWF for IUCN or UNEP but CITES mor	e specific. [3]