## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

**International General Certificate of Secondary Education** 

## MARK SCHEME for the May/June 2008 question paper

## 0680 ENVIRONMENTAL MANAGEMENT

0680/01

Paper 1, 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.

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.

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Syllabus

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,	\		·		S.			
(8	a) (i)	the	Mary	`	Mer			
	(ii)	300	no need for units, ignore if given and wrong		OBC AMBIL			
	(iii)	Tia;	highest flow/area figure		[2			
(k	b) (i)	not etc.	loss of their home/move home/farm etc; loss of wildlife habitat/species; expense; does not solve problem; environmental damage/destruction/habitat loss; disturbance/noise, etc. during construction; AVP R unqualified flooding					
	(ii)		s removed from sea water; using heating process/ne efore (energy) rich country; coastal/AW;	eeds much energy;	[3			
(8	a) (i)	16			[1			
	(ii)	the	oore spaces fill up with water; so no/little air/oxygen	for plants	[2			
(k	b) (i)		er dissolves salt crystals; which makes brine, comes ternatives to dissolves and salt; water evaporates, le		[2			
	(ii)		vs penetration of more water; dissolves salts; poration	; water table rises,	increase [2			
	(iii)		er directed at roots; more efficient use; less water ; thus less evaporated;	laying around (e.g. le	ess run-of [3			
(a)	a) (i)	-	aced owtte; quickly owtte; by natural processes; going to run out					
			sed again and again		[2			
	(ii)	carb	on dioxide; NO <sub>x</sub> ; SO <sub>2</sub> ; CO		[2			
	(iii)	acid cand NO <sub>2</sub> acid CO <sub>2</sub> glob CO bind max	rain; tree death; loss of soil minerals; fish deather; breathing problems; buildings damage rain; as above	and consequent huma	n effects			

(b) fuel taxes/tolls etc (G); use bikes/walk (P); car share (P); use public transport (P); provide/subsidise public transport (G); use of catalytic converters (G or P); ref hybrid cars [3]

Mark Scheme

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raye 3		ge 3	IGCSE – May/June 2008	0680 <b>2</b>			
4	(a)	(i)	animals/plants; and physical environment (with which biotic; abiotic	Syllabus 0680  they interact) ons for living			
			change in vegetation; over time; by change of conditi	ons for living			
	(	(ii)	DCBA from top half each	[2			
		exp	ming;; building;; roads;; logging/AW expansion of each cansion most likely reasons for increase in roads, but see only in this context				
5	(a)	(i)	1955: 1100 – 1200 2000: 4700 – 4800	[2			
		(ii)	fertiliser; pesticides; herbicides; machinery; irrigation; (e.g. disease resistant, drought resistant ONCE)	; feature of HYV [3			
	(	iii)	1966-68	[1			
		pesticides: build up along food chains; chains/bioamplification/magnification; kill predators; danger to humans (for one unless something specific and correct quoted);AVP herbicides: similar arguments to pesticides fertilisers:					
			ched; enrich water; kill fish; deplete O <sub>2</sub> ; y 2 x 2	[4			
6	. ,		ock/fossil fuel; ead) vegetation/trees/etc; compressed by sediments/ov	ver long time [3			
	(b)	(i)	2,700,000,000 tonnes (no margin)	[1			
	(	(ii)	1,575,000,000 tonnes (for 2) (one for 2,700,000,000	-1,125,000,000) [2			
	(	iii)	increased population in US/more electricity used extraction/machines for extracting AVP	d, with reason/better methods o [1			
	` ,	irrig	d topsoil/overburden; gate/fertilise/other methods of soil improvement after a nt trees, etc. or plants will be growing;	dded back; [3			