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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				IGCSE – May/June 2008	0680	01		
1	(a)	(i)	the N	Лагу		[1]		
		(ii)	300,	no need for units, ignore if given and wrong		[1]		
		(iii)	Tia; I	highest flow/area figure		[2]		
	(b)	(i)	 (i) loss of their home/move home/farm etc; loss of wildlife habitat/species; expense; not solve problem; environmental damage/destruction/habitat loss; disturbance/r etc. during construction; AVP R unqualified flooding 					
		(ii)	salts there	eds much energy;	[3]			
2	(a)	(i)	16			[1]		
		(ii)	the p	ore spaces fill up with water; so no/little air/oxygen	for plants	[2]		
	(b)	(i)		r dissolves salt crystals; which makes brine, comes ernatives to dissolves and salt; water evaporates, le		[2]		
		(ii)		vs penetration of more water; dissolves salts; poration	; water table ris	es, increased [2]		
		(iii)		r directed at roots; more efficient use; less water thus less evaporated;	laying around (e.	g. less run-off, [3]		
3	(a)	(i)	-	aced owtte; quickly owtte; by natural processes;				
				joing to run out ed again and again		[2]		
		(ii)	carbo	on dioxide; NO _X ; SO ₂ ; CO		[2]		
		(iii)	acid rain; tree death; loss of soil minerals; fish death; poison lakes; bronchitish cancer; breathing problems; buildings damage NO _X acid rain; as above CO ₂ global warming; floods; sea level rise; extreme weather; and consequent human effecto binds with haemoglobin; reduces oxygen carriage, no third mark max of two for each of People and Environment NOTE: watch they do not switch chemicals between human effects and those environment, must be SAME					
	(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

Syllabus

Paper

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	Page 3			Mark Scheme	Syllabus	Paper			
				IGCSE – May/June 2008	0680	01			
4	(a)	(i)		nimals/plants; and physical environment (with which they interact) otic; abiotic					
	cha			nge in vegetation; over time; by change of conditions	[2]				
		(ii)	DCB	BA from top half each		[2]			
	(b)	(b) farming;; building;; roads;; logging/AW expansion of each x 2 expansion most likely reasons for increase in roads, buildings, etc. but population is once only in this context							
5	(a)	(i)		5: 1100 – 1200 D: 4700 – 4800		[2]			
` ,				iser; pesticides; herbicides; machinery; irrigation; fe disease resistant, drought resistant ONCE)	[3]				
		(iii)	1966	6-68		[1]			
	(b) pesticides: build up along food chains; chains/bioamplification/magnification; kill predators; dang humans (for one unless something specific and correct quoted);AVP herbicides: similar arguments to pesticides fertilisers: leached; enrich water; kill fish; deplete O ₂ ;								
6	(a)	a ro		ssil fuel; egetation/trees/etc; compressed by sediments/over	long time	[4]			
	(b)	(i)	2,70	0,000,000 tonnes (no margin)		[1]			
		(ii)	1,57	5,000,000 tonnes (for 2) (one for 2,700,000,000 -1,	,125,000,000)	[2]			
		(iii)		eased population in US/more electricity used, action/machines for extracting AVP	with reason/bette	r methods of [1]			
	(c)	irrig	ate/fe	oil/overburden; ertilise/other methods of soil improvement after adde es, etc. or plants will be growing;	ed back;	[3]			

Mark Scheme

Syllabus

Paper

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