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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2007 question paper

0680 ENVIRONMENTAL MANAGEMENT

0680/01 Pa

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.

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

CIE is publishing the mark schemes for the May/June 2007 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

					Syllabus 0680 emove soil home			
	Page 2			Mark Scheme	Syllabus	r		
				IGCSE – May/June 2007	0680			
1	(a)	(i)	defo	prestation	Cal	Mr.		
		(ii)	emove soil	'age				
			OR habitat loss; trees provide 'home' for other species; lose home OR					
			CO ₂ levels build up; global warming; climate change/AVP, also allow idea of less photosynthesis causing less carbon dioxide uptake					
			OR AVP (basic idea NAME; EXPLANATION; CONSEQUENCE)					
		(iii)	carb	oon dioxide/methane		[1]		
	(b) (i) sea level rise; described/consequence OR climate change; described/consequence							
	OR ice cap melting; consequence							
			OR anim AVP	nal/plant distribution changes; consequence (e.g. sp	read of malaria etc.)	[2]		
		(ii)	alter	vs to limit car use; encourage use of public transport; specific details; research ernative fuel sources; specific details; aid for insulation or in some way courage; afforestation; AVP; (ban CFC IF it states they are greenhouse gases);				
			(acc	cept recycling IF linked to saving fuel as a consequence, NOT just on its own)				
					[Total	l: 10]		
2	(a)	(i)		esert, B equatorial for ONE mark o high rainfall in B or low in A ;		[1]		
				o always high temps in B , very high but variable in A	A	[2]		
		(ii)	(only	of water/little/no rain; plants need water to grow, y allow once)/owtte hot; plants die	/photosynthesise/plants die			
				d irrigation; cost		[4]		
	(b)) insecticides/pesticides; herbicides; ref to biological control methods/or describe method which does not use agrochemicals; mark for correct specific exampl anywhere						
		[Total:						

				The state of				
	Page 3		Mark Scheme	Syllabus	r			
	i ago c		IGCSE – May/June 2007	0680 %				
3	(a) (i)	A – 6 B – 6 C – p	Syllabus 0680 absorption; by roots	Abridge				
	(ii)	it will increase; no interception; by leaves/trunk/stem; no absorption; by roots concrete (owtte) surface not 'absorbing' for one mark						
	(b) (i)	(i) washing/bathing/cleaning etc./laundering/cooking/AVP cooling/reagent/HEP/steam generation etc./AVP						
	(ii)		ution control/sanitation/filtering/chlorination/deionisi anation for other (e.g. chlorination kills bacteria)	ing; AVP for one with	[2]			
		[Total: 1						
4	(a) (i)	3 po	ints plotted correctly for 2 marks, 2 for 1 mark		[2]			
	(ii)				[3]			
	(b) (i)	oil; sewage; any named chemical (correct) (mercury, etc.); hot water; detergent; fishing equipment; AVP						
	(ii)		age treatment; treaties, etc., between countries; do noms; laws on dumping in sea/fines AVP	etergent on oil; barriers to	[3]			
	тј							
5	(a) (i)	coal			[1]			
	(ii)	shell pres	e moved by water/air; ref	[2]				
	(iii)		270 ± 10 for one mark H oil AND gas 140 for second mark		[2]			
	(b) (i)	cred	e; dust; fuel 'fumes' (specified) (® carbon dioxide ref it positive benefits too (e.g. better standard structure); AVP		[2]			
	(ii)		amation for one mark; details, add topsoil; plant pla duce species in vaguer terms	ants/trees; add fert/humus;	[3]			
				[Total	l: 10]			
6	(a) (i)		area gone down (a lot); then back up (a little); coul ote figs get 2 marks	d have either on its own or	[2]			
	(ii)		ced numbers/diversity; aquatic (owtte) habitat loss nals; some credit for reverse argument for land living		[3]			
	(b) (i)	drair	nage; for farming/housing; provide food/homes for m	nore people;	[3]			
	(ii) protects it/saves it; cannot farm/build; restricted access; education/researc economy because people pay to enter reserve				[2]			

[Total: 10]