UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2006 question paper

0680 ENVIRONMENTAL MANAGEMENT

0680/04

Paper 4, maximum raw mark 60

These mark schemes are published as an aid to teachers and students, to indicate the requirements of the examination. They show the basis on which Examiners were initially instructed to award marks. They do 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 May/June 2006 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	Sylla 7 r	
			IGCSE – May/June 2006	0680	
1	(a) hot all year; many windy days; so evaporation rapid/speeded up/eq;				2
	(b)	hot all year; many windy days; so evaporation rapid/speeded up/eq; they carry out photosynthesis; which makes food/organic molecules for algorow/provide food for consumers;			
	(c) energy lost /respiration loses energy; so only some food turned into consubodies/biomass; not enough to support more than two feeding levels; AVF			o consumer	[2]
	(d)	pollu (ii) cons	ninable, salt water never runs out; process is solar tion; AVP; ervation, not many habitats for wading birds left; food of the properties goes on: AVP;	chain can be main	tained
2	whilst evaporation goes on; AVP;(a) control building; build sewage treatment works; AVP;			יון	nax 3] [2]
	(b) (i) any three valid points, such as leave no litter; do not kill fish; do not take coral away; report any damag			nv damage: AVP::	[3]
	(ii) 12;			ny damago, zvv. ,,	[1]
		(iii) 4 sh	ore and dive only, 4 boat shore and dive only; 4 boat		norkel; nax 3]
	(c) (i) nearly all boat access have higher % damage; highest shore damage 3.1 just higher than lowest boat damage 3.0%;			re damage 3.1% i	s only [2]
		(ii) more	dives in total, explained; anchors do damage; boats hitting	shallow corals; AV	P;; [3]
		(iii) 3-10	need for repetition to make findings more reliable/ref to	means;	[2]
	(d)		ot be exactly repeated; survey of only one post not ified; no undamaged corals recorded;		ances nax 3]
		(ii) corre	ect orientation; length; all three posts;		[3]
		(iii) 135,	150;		[1]
		(iv) 15/1	50 x 100 = 10 (%); allow error from part (iii)		[1]
	(e) more damage/twice as much damage; around		nage/twice as much damage; around every post; AVP;		[2]
	(f)	numbers	of dives/divers at each survey;		[1]
(g)		some mention of all three aspects to score max 6 valid points;;;;; [6]			[6]
3	(a)	 increased number of leaves; but reduced length; shorter plants less exported evaporation by wind; AVP; 			ed to [3]
	(b)	(i) 8 m (on scale;		[1]
		(ii) east-	west line drawn;		[1]
		plot I	tation; labelled; eaves; ength;		[4]

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- (iv) as distance increases from hedge number of leaves drops; and lengdrops;
- (c) weigh fresh harvest from known sections of field/eq;
- (d) two sensible densities/one may be lower than suggested;;;
- (e) soil exhaustion/minerals used up; loss of soil structure/more prone to erosion; disease in crops; loss of biodiversity in context; AVP;;

Total 60