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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.

Page 1		e 1	Mark Scheme	Sylla 72 r		
			IGCSE – May/June 2006	0680		
(a)	hot all year; many windy days; so evaporation rapid/speeded up/eq;					
(b)	Page 1 Mark Scheme Sylling IGCSE – May/June 2006 068th Not all year; many windy days; so evaporation rapid/speeded up/eq; they carry out photosynthesis; which makes food/organic molecules for all grow/provide food for consumers;					
(c)	energy lost /respiration loses energy; so only some food turned into consumer bodies/biomass; not enough to support more than two feeding levels; AVP; [2]					
(d)	(i) sustainable, salt water never runs out; process is solar powered; no s pollution; AVP;				can	
	(ii)	conse	rvation, not many habitats for wading birds left; food evaporation goes on; AVP;	chain can be maintai		
(a)	con	ontrol building; build sewage treatment works; AVP; [2				
(b)	(i)	•	ree valid points, such as no litter; do not kill fish; do not take coral away; report	any damage; AVP;;	[3]	
	(ii)	12;			[1]	
	(iii)	4 sho AVP;	re and dive only, 4 boat shore and dive only; 4 boa	t shore dive and snor [ma		
(c)	(i)	-	all boat access have higher % damage; highest she gher than lowest boat damage 3.0%;	ore damage 3.1% is o	only [2]	
	(ii)	more o	dives in total, explained; anchors do damage; boats hittin	ng shallow corals; AVP;;	[3]	
	(iii)	3-10;	need for repetition to make findings more reliable/ref to	o means;	[2	
(d)	(i)		ot be exactly repeated; survey of only one post noticed; no undamaged corals recorded;	ot enough; no distan [ma		
	(ii)	correc	ct orientation; length; all three posts;		[3]	
	(iii)	135, 1	50;		[1]	
	(iv)	15/150	0 x 100 = 10 (%); allow error from part (iii)		[1]	
(e)	mor	e dam	age/twice as much damage; around every post; AVP;		[2]	
(f)	nun	nbers o	of dives/divers at each survey;		[1]	
(g)	some mention of all three aspects to score max 6 valid points;;;;; [6]					
(a)	increased number of leaves; but reduced length; shorter plants less exposed to evaporation by wind; AVP;					
(b)	(i)	8 m o	n scale;		[1]	
	(ii)	east-w	vest line drawn;		[1]	
	(iii)	orienta axes la plot le plot le	abelled; aves;		[4]	

		7.
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- (iv) as distance increases from hedge number of leaves drops; and leng drops;
- (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;; [3]

Total 60