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## **0680 ENVIRONMENTAL MANAGEMENT**

0680/04

Paper 4 (Alternative to Coursework), 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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Page	e 2	Mark Scheme	Syllabus	a Ager
		IGCSE – May/June 2007	0680	Tac.
ANZANI	A			Mbr.
(a) (		S1 extinction inevitable; as no spray; S2 species sav S3 some may survive in habitat;	ved; but not in n	atural habitat; [max
(i	i)	a proper environmental survey/eq;		[1]
(ii	i)	yes, qualified; or no, qualified; R refs to tourism		[1]
(b) (	(i)	not enough left to breed; so none can be exported in t	future/eq;	[2]
(i		B; less deaths (equal deaths) 0; more juveniles; incre AVP e.g. no need to supply special diet	ased breeding r	ate; [3]
(c) (	(i)	axes labelled; orientation; correct plots;;		[4]
(i		<b>X</b> faster growth Jan-June; difference bigger toward growth decreased in <b>Y</b> during May-June;	ls end/differenc	e is 35 mm/rate of [2]
(ii	i)	natural vegetation and cabbage;		[1]
(iv	<b>v</b> )	to prevent disease/described; AVP: a cleaner enviror	nment/eq	[1]
(\		prevent inbreeding/spread of wrong genes; increase pool; adds biological variation;	e vigour to offsp	oring; maintain gene [2]
		A ref to (increased/maintain) fertility		
• •		' high yield in small area; everyone involved; orga ion; DIS labour intensive; only some of ground cultiva		ed; less chance of [max 2]
(b) (	(i)	pH; rainfall; aspect; slope angle; species of plant; soil	type; AVP	[max 2]
(i	i)	count all cobs and weigh some, calculate total weight		[1]
(ii	i)	divide part (ii)/yield by number of square metres;		[1]
(c) (	(i)	some plants died of disease; lack of water; lack of nut	trients; AVP;	[2]
(i	i)	750/3000 x 100 = 25%;;		[2]
(d) (		Surface runoff; so soil erosion; other ridges broken; to e.g. crops damaged/destroyed	op soil to bottom	n of field; AVP; [2]
(i	i)	lower yield due to low nutrients/eq; loss of soil structu	ıre; AVP;; e.g. le	ess money for seeds [2]

Pa	ige 3			Mark Schei	me		Syllabus	Q.	er
	Ŭ		IGC	SE – May/Ju			0680	800	
(a)	(i)	Mark Scheme Syllabus   IGCSE – May/June 2007 0680   poison/problems in lungs; via skin; in organs; death; 0680   food chain poisoned; so wild food not safe to eat; AVP;; some fields now in poor condition; less food than before as less farming; less mo buy food/drugs; loss of farming skills; miners leave to mine other areas; AVP					ambri		
		food cha	in poisoned;	so wild food	not safe to ea	at; AVP;;			19
	(ii)	buy food		of farming			e as less farm o mine other	iing; less m areas; AV	ioney to P;; e.g. [3]
(b)		e for HEP. ail of any	/electricity; m use;	ake irrigated	fields; source	e of clean	water;		[2]
(c)	(i)	same ag	je; type of goa	at; size; type	of enclosure;	number	of goats		[2]
	(ii)	weigh go	oats each mo	nth; measure	e milk yield; h	ealth che	cks; AVP;;		[3]
	(iii)	table dra	awn; headings	s; units;					[3]
(d)	(i)	correct o	Irawing;						[1]
	(ii)	15;							[1]
(e)			82.5 ; 3000/1 5 9 (allow wol			000/365	= 8;		[2]
(f)	(i)	small fie	lds; so high le	evel of care; f	fits in with chi	ld care/ot	her work; ow	n income;	[2]
	(ii)				ea can have ave the villag		velopment m ev (2mks)	ark e.g. co	uld use [3]

[TOTAL: 60]