UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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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.

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

CIE is publishing the mark schemes for the May/June 2008 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Page 2		2 Mark Scheme Syllabus		Syllabus	
(a)	(;)	00/9/	IGCSE – May/June 2008	<u>0680</u> 73C3	
(a)		90(%			26-1
	(11)	2009	; accept 2.2 yrs		1
(b)	(i)		e dying of infection; being caught by lions/unable t e move away; poachers killed some anyway; AVP e		lent [2]
(c)	(i)	refs t refs t these	e relevant questions + layout mark;;;; o tourists once o poaching once e should be about how people feel e.g. eating rhino age to buildings?	? killing rhino? damage to cre	ops? [4]
	(ii)	spec	t only some villages at random; sample same i ified number) in each village; same sex/age distrib boor people; different occupations;		
(d)	(i)		y are owned they will be looked after; does not pa fit so will put up with damage; AVP;; e.g. refs to rep		ocals [2]
	(ii)	table	drawn that is appropriate; headings for columns/ro	ws (3) <u>years;</u> numbers;	[3]
(e)	(i)	horns will always give income/equivalent; good use of income/escape poverty/gives job; ignore standard of living reject refs to government			es a
	(ii)		als will not be allowed to become extinct; car w/equivalent;	n breed/allows harvesting/h	orns [4]
(a)	(i)	May	– August December – March;		[1]
	(ii)	Febr	uary June;		[1]
(iii)	orien key)	tation; axes labelled; plotting;; (allow one error po	er line/does not have to ha	ve a [4]
(iv)		both increase (fastest between 7–14 days);			[1]
	(v)	20(%);;		[2]
(vi)		of peas/cost of irrigation kit; volume of water neede t area of field	∋d; AVP;	[2]
(י	vii)	grow ignor	planting density; soil type/equivalent; fertiliser; type ing time; AVP;; e same temp/light/wind st soil unqualified	of plant; species/variety of	pea; [2]
(v	iii)	plant coun comp	ing – ref to planting time/density/age of seed/type o ting – ref to careful marking of plants counted/same parison – ref to use of weighing scales/collect from e mark max for each section)	e sample size/equivalent;	[2] [1] [1]

Page 3	Mark Scheme IGCSE – May/June 2008	Syllabus of er 0680
rotatio peas a replan profit f this fai AVP;	ay be for animal only, chick peas only, or mixed, also on in ideas but not annual , could be peas or animals or bo re leguminous/aid fertility/fix N; ting after 5–8 years; animals feeding on crop residues; rom selling cows/calves/meat; ming does not need additional water/irrigation; refs to annual crop rotation	own knowledge oth;
	ing/toxic; by breathing; asthma/bronchitis/lung cancer/l ms; through skin/burns/equivalent; AVP; e.g. ref to burn	a
(b) extra g	old worth more than cost of chemicals/increased profit	/equivalent; [1]
	prevent overflow in heavy rain; poisoning wild life; AVF j ect humans falling in/emission of gases	P; e.g. drinking the contents; [2]
	ison soil; cyanide does not break down in dark/equival	
	atercourse; poisons fish/plants; AVP;; e.g. humans pois ants/animals	
(d) (i) er	nployment; qualified e.g. money for health care;	
(ii) wi	Il bring cultural/chemical/visual/noise/pollution;; AVP; e	.g. health problems [max 3]
(iii) al	on one side of river or away from cultivated area/villag	je/equivalent; [1]
(iv) po	nds could break/drain downhill into river/poison water	supply; [1]
	and crushing plant moved further away from villages of pollution of village; cultivated area;	on diagram; reasons given;;; e.g [4]
(f) monito	r key species of plants/fish; apply same survey meth	nod regularly; describe sensible

(f) monitor key species of plants/fish; apply same survey method regularly; describe sensible survey method = number; size/weight/length of fish; report fish kills; AVP;; e.g. check oxygen level reject measuring pH/equivalent [2]