UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2008 question paper

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.

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			M 101						
Page 2			Mark Scheme IGCSE – May/June 2008	Syllabus er 0680					
				IGCSE – May/June 2006	0000				
1	(a)	(i)	90(%	b);	May May				
		(ii)	2009	c; accept 2.2 yrs	Syllabus 74. Page er 0680				
	(b)	(i)		dying of infection; being caught by lions/unable to defend themselves/equivalent; move away; poachers killed some anyway; AVP e.g. horns removed already; [2]					
	(c)	(i)	refs t	relevant questions + layout mark;;;; to tourists once to poaching once should be about how people feel e.g. eating rhino? killing rhino? damage to crops?					
			damage to buildings?						
		(ii)	spec	only some villages at random; sample same number of people (e.g. 10% o ied number) in each village; same sex/age distribution in each village; AVP;; e.g oor people; different occupations; [3					
	(d)	(i)		ey are owned they will be looked after; does not pay to kill source of income; localefit so will put up with damage; AVP;; e.g. refs to reproduction					
		(ii)	table	drawn that is appropriate; headings for columns/rows (3) years; numbers;					
	(e)	(i)	job; i	ns will always give income/equivalent; good use of income/escape poverty/gives ignore standard of living ect refs to government					
		(ii) animals will not be allowed to become extinct; can breed/allows harvesting regrow/equivalent;							
2	(a)	(i)	May -	– August December – March;	[1]				
		(ii)	Febr	uary June;	[1]				
	(iii)		orien key)	ntation; axes labelled; plotting;; (allow one error p	per line/does not have to have a [4]				
	((iv)	both	increase (fastest between 7–14 days);	[1]				
		(v)	20(%	o);;	[2]				
	(vi)			of peas/cost of irrigation kit; volume of water need area of field	ed; AVP; [2]				
g			grow	pH; planting density; soil type/equivalent; fertiliser; type of plant; species/variety of pea; growing time; AVP;; ignore same temp/light/wind					
			-	ct soil unqualified	[2]				
	(v	riii)	coun	ring – ref to planting time/density/age of seed/type of ting – ref to careful marking of plants counted/same parison – ref to use of weighing scales/collect from mark max for each section)	e sample size/equivalent; [1]				

Page 3			3	Mark Scheme	Syllabus	er		
				IGCSE – May/June 2008	0680	Sp.		
	(b)	Page 3 Mark Scheme IGCSE – May/June 2008 (b) plan may be for animal only, chick peas only, or mixed, also own knowledge rotation ideas but not annual , could be peas or animals or both; peas are leguminous/aid fertility/fix N; replanting after 5–8 years; animals feeding on crop residues; profit from selling cows/calves/meat; this farming does not need additional water/irrigation; AVP; reject refs to annual crop rotation						
3	(a) poisoning/toxic; by breathing; asthma/bronchitis/lung problems; through skin/burns/equivalent; AVP; e.g. re				_	ng [2]		
	(b)	ext	ra gol	d worth more than cost of chemicals/increased profi	t/equivalent;	[1]		
	(c)	 (i) to prevent overflow in heavy rain; poisoning wild life; AVP; e.g. drinking the reject humans falling in/emission of gases 				ontents; [2]		
	wate		wate	on soil; cyanide does not break down in dark/equivalent; leached through ercourse; poisons fish/plants; AVP;; e.g. humans poisoned by feeding on ts/animals		n soil; enters		
	(d)	(i)	emp	loyment; qualified e.g. money for health care;				
		(ii)	will b	oring cultural/chemical/visual/noise/pollution;; AVP;	e.g. health problems	[max 3]		
	(iii)		all o	n one side of river or away from cultivated area/villa	ge/equivalent;	[1]		
		(iv)	pond	ds could break/drain downhill into river/poison water	supply;	[1]		
				nd crushing plant moved further away from villages bllution of village; cultivated area;	on diagram; reasons	given;;; e.g. [4]		
	(f)		thod regularly; descr sh kills; AVP;; e.g. ch					