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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.

		m m					
Page 2		Mark Scheme Syllabus	er				
		IGCSE – May/June 2008 0680	Star				
1	(a) (i)	90(%);	and.				
	(ii)	2009; accept 2.2 yrs	N. P.				
	(b) (i)	some dying of infection; being caught by lions/unable to defend themselves/equivalent; some move away; poachers killed some anyway; AVP e.g. horns removed already; [2]					
	(c) (i)	three relevant questions + layout mark;;;; refs to tourists once refs to poaching once these should be about how people feel e.g. eating rhino? killing rhino? damage to crops damage to buildings?					
	(ii)	select only some villages at random; sample same number of people (e.g. 10% specified number) in each village; same sex/age distribution in each village; AVP;; e rich/poor people; different occupations;					
	(d) (i)	if they are owned they will be looked after; does not pay to kill source of income; benefit so will put up with damage; AVP;; e.g. refs to reproduction					
	(ii)	table drawn that is appropriate; headings for columns/rows (3) <u>years;</u> numbers;					
	(e) (i)	horns will always give income/equivalent; good use of income/escape poverty/gives a job; ignore standard of living reject refs to government					
	(ii)	animals will not be allowed to become extinct; can breed/allows harvesting/horn regrow/equivalent;					
2	(a) (i)	May – August December – March;	[1]				
	(ii)	February June;	[1]				
	(iii)	orientation; axes labelled; plotting;; (allow one error per line/does not hkey)	rror per line/does not have to have a [4]				
	(iv)	both increase (fastest between 7–14 days);	[1]				
	(v)	20(%);;					
	(vi)	price of peas/cost of irrigation kit; volume of water needed; AVP; reject area of field	[2]				
	(vii)	pH; planting density; soil type/equivalent; fertiliser; type of plant; species/variety of pergrowing time; AVP;; ignore same temp/light/wind reject soil unqualified					
	(viii)	planting – ref to planting time/density/age of seed/type of seed; counting – ref to careful marking of plants counted/same sample size/equicomparison – ref to use of weighing scales/collect from exactly same size (one mark max for each section)					

	Page 3			Mark Scheme	Syllabus	er			
				IGCSE – May/June 2008	0680	5-			
	` ,	rotat peas repla profi	Mark Scheme IGCSE – May/June 2008 n may be for animal only, chick peas only, or mixed, also own knowledge ation ideas but not annual , could be peas or animals or both; as are leguminous/aid fertility/fix N; planting after 5–8 years; animals feeding on crop residues; offit from selling cows/calves/meat; as farming does not need additional water/irrigation; P:						
		rejed	reject refs to annual crop rotation						
3	, ,	 poisoning/toxic; by breathing; asthma/bronchitis/lung cancer/lung disease/breathing problems; through skin/burns/equivalent; AVP; e.g. ref to burns 							
	(b)	extra	a gold	d worth more than cost of chemicals/increased prof	it/equivalent;	[1]			
		 c) (i) to prevent overflow in heavy rain; poisoning wild life; AVP; e.g. drinking the co reject humans falling in/emission of gases (ii) poison soil; cyanide does not break down in dark/equivalent; leached through watercourse; poisons fish/plants; AVP;; e.g. humans poisoned by feeding on plants/animals 			[2]				
	(d)	(i)	empl	oyment; 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 on	n one side of river or away from cultivated area/villa	ge/equivalent;	[1]			
	((iv)	pond	ls could break/drain downhill into river/poison water	supply;	[1]			

(e) ponds and crushing plant moved further away from villages on diagram; reasons given;;; e.g.

(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

[4]

[2]

noise; pollution of village; cultivated area;

reject measuring pH/equivalent

level