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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			IGCSE – May/June 2008	0680	04			
1	(a) (i)	90(%	b);		[1]			
	(ii)	2009	; accept 2.2 yrs		[1]			
	(b) (i)	some dying of infection; being caught by lions/unable to defend themselves/equival some move away; poachers killed some anyway; AVP e.g. horns removed already;						
	(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 o damage to buildings? 						
	(ii)	 (ii) select only some villages at random; sample same number of people (e.g. specified number) in each village; same sex/age distribution in each village; AV rich/poor people; different occupations; 						
	(d) (i)		if they are owned they will be looked after; does not pay to kill source of income; loc benefit so will put up with damage; AVP;; e.g. refs to reproduction					
	(ii)	table	drawn that is appropriate; headings for columns/re	ows (3) <u>years;</u> numb	oers; [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						
	(ii)		als will not be allowed to become extinct; ca ow/equivalent;	an breed/allows ha	rvesting/horns [4]			
2	(a) (i)	May	– August December – March;		[1]			
	(ii)	Feb	uary June;		[1]			
	(iii)		tation; axes labelled; plotting;; (allow one error p	per line/does not h	ave to have a [4]			
	(iv)	both	increase (fastest between 7–14 days);		[1]			
	(v)	20(%	b);;		[2]			
	(vi)		of peas/cost of irrigation kit; volume of water neec t area of field	led; AVP;	[2]			
	(vii)	grov igno	pH; planting density; soil type/equivalent; fertiliser; type of plant; species/variety of pea; growing time; AVP;; ignore same temp/light/wind reject soil unqualified [2]					
	(viii)	cour com	ing – ref to planting time/density/age of seed/type ting – ref to careful marking of plants counted/sam parison – ref to use of weighing scales/collect from mark max for each section)	e sample size/equiv				

Page 3				Syllabus	Paper		
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(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 [max 5						
3 (a)	poisoning/toxic; by breathing; asthma/bronchitis/lung cancer/lung disease/breathir problems; through skin/burns/equivalent; AVP; e.g. ref to burns						
(b)	exti	a gol	d worth more than cost of chemicals/increased profi	it/equivalent;	[1]		
(c)	(i)		revent overflow in heavy rain; poisoning wild life; AV ct humans falling in/emission of gases	P; e.g. drinking the	contents; [2]		
	(ii)	wate	on soil; cyanide does not break down in dark/equiva ercourse; poisons fish/plants; AVP;; e.g. humans poi ts/animals				
(d)	(i)	emp	loyment; qualified e.g. money for health care;				
	(ii)	will k	oring cultural/chemical/visual/noise/pollution;; AVP; e	e.g. health problem	s [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]		
(e)			nd crushing plant moved further away from villages ollution of village; cultivated area;	on diagram; reasor	ns given;;; e.g. [4]		
(f)	mo	nitor	key species of plants/fish; apply same survey met	thod regularly; des	cribe 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