UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Ordinary Level

MARK SCHEME for the May/June 2008 question paper

5014 ENVIRONMENTAL MANAGEMENT

5014/02

Paper 2, 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	Paper			
				GCE O LEVEL – May/June 2008	5014	02			
1	(a)	(i)	90(%	(6) ;		[1]			
		(ii)	2009	2009; accept 2.2 yrs					
	(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? [4]						
		(ii)	select only some villages at random; sample same number of people (e.g. 10% or specified number) in each village; same sex/age distribution in each village; AVP;; e.g. rich/poor people; different occupations;						
	(d)	(i)	if they are owned they will be looked after; does not pay to kill source of income; locals benefit so will put up with damage; AVP;; e.g. refs to reproduction [2]						
		(ii)	table drawn that is appropriate; headings for columns/rows (3) <u>years;</u> numbers; [3						
	(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/horns regrow equivalent;						
2	(a)	(i)	May	– August December – March;		[1]			
		(ii)	February June;						
	((iii)	orientation; axes labelled; plotting;; (allow one error per line/does not have tkey)						
	(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				AVP;	[2]				
	(vii)	pH; planting density; soil type/equivalent; fertiliser; type of plant; species/variety of p growing time; AVP;; ignore same temp/light/wind reject soil unqualified						
	(\	riii)	cour	ting – ref to planting time/density/age of seed/type of sating – ref to careful marking of plants counted/same sating – ref to use of weighing scales/collect from exampark max for each section)	ample size/equiv				

			GCE O LEVEL – May/June 2008	5014	02			
(b	rota pea rep pro this AV	olan 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; beas are leguminous/aid fertility/fix N; replanting after 5–8 years; animals feeding on crop residues; brofit from selling cows/calves/meat; this farming does not need additional water/irrigation; AVP;						
	rej	reject refs to annual crop rotation						
3 (a		poisoning/toxic; by breathing; asthma/bronchitis/lung cancer/lung disease/breathing problems; through skin/burns/equivalent; AVP; e.g. ref to burns						
(b) ext	xtra gold worth more than cost of chemicals/increased profit/equivalent;			[1]			
(c)) (i)		prevent overflow in heavy rain; poisoning wild life; AVP; e.g. drinking the contents; ect humans falling in/emission of gases					
	(ii)	poiso	on soil; cyanide does not break down in dark/equivalent; leache		•			
			ercourse; poisons fish/plants; AVP;; e.g. humans poiso ts/animals	ned by feeding o	on [3]			
(d) (i)	emp	loyment; qualified e.g. money for health care;					
	(ii)	will b	oring cultural/chemical/visual/noise/pollution;; AVP; e.g	. health problem	s [max 3]			
	(iii)	all or	n one side of river or away from cultivated area/village/	/equivalent;	[1]			

(iv) ponds could break/drain downhill into river/poison water supply;

noise; pollution of village; cultivated area;

reject measuring pH/equivalent

level

(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

Mark Scheme

Syllabus

Paper

[1]

[4]

[2]

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