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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

General Certificate of Education Ordinary Level

MARK SCHEME for the November 2004 question paper

5014 ENVIRONMENTAL MANAGEMENT

5014/02

Paper 2 (Alternative to Coursework), maximum mark 60

This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which Examiners were initially instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began. Any substantial changes to the mark scheme that arose from these discussions will be recorded in the published *Report on the Examination*.

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*.

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November 2004

GCE O LEVEL

MARK SCHEME

MAXIMUM MARK: 60

SYLLABUS/COMPONENT: 5014/02

ENVIRONMENTAL MANAGEMENT (Alternative to Coursework)

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	Page 1	Mark Scheme Syllabu Sy	
		ENVIRONMENTAL MANAGEMENT – NOVEMBER 2004 5014	C.
1	(a)	plan A or C; valid reasons such as only one path/not everyone samples/on one day (max 2); AVP; R communication problems (no marks if B)	Cambridge.com
	(b)	table drawn (1); headings e.g. people/paths/wood for one day (2);	3 COM
	(c) (i)	231;	
	(ii)	12078 or 12045 or 12012;	2
	(d)	sample more than one day; find weight of each bundle; repeats; at differentimes of year; AVP;	t 2
	(e) (i)	axes labelled; plots; orientation; scale; (R plots without scale one plot error = 0)	4
	(ii)	160; 220;	2
	(iii)	1120 - 1350;	1
	(iv)	more households; more people in each household; more people; more more into towns/eq; ref to improved standard of living/development; AVP (max 2)	
	(f) (i)	increase to C (C is highest) then decrease;	1
	(ii)	stays the same/no change/only slight fall at C; (alternatively allow good comparison with top row of data)	1
	(iii)	loss of soil fertility; further qualification; loss of soil structure; further qualification; reduced organic content; ref to soil erosion/surface runoff; AVP;	2
	(iv)	G1 to make more trees; acts as a seed bank; genetic resource; fruits = foo for animals/humans; AVP;	d
		G2 slow growing trees preserved; protects soil from wind; and rain; AVP;	
		G3 more wood produced; protections of soil/crop; AVP;	
		G4 prevents erosion; flooding; siltation; keeps clean water supply; animals from damaging banks; AVP;	4
2	(a) (i)	clean water/less bacteria/disease; less polluted; clear not cloudy; time saved/eq; so other specified activity possible; AVP;	2
	(ii)	do not have knowledge to build; equipment; not able to find best site; or maintain it; cost qualified; AVP;	2
	(iii)	they can learn to build wells/eq; maintain wells. 'ownership' of well; AVP; cost qualified (but not if already given in (ii));	2
	(b)	clean water to drink; ref to passing bacteria/disease between humans or faeces and water; less gastric disorders; (clean water) to prepare food; to wash in; AVP; R pollution/mosquitoes/malaria	2

	Page 2		Mark Scheme	Syllabu	
			ENVIRONMENTAL MANAGEMENT – NOVEMBER 2004	5014	2
3	(a) (i)	to	give energy/protein/body building/vitamins A and/or D	Syllabu 5014 /fish oils;	dh
	(ii)	net size; mesh size; number of fishing trips/days/close season/quota; returner species/eq; ref to reproduction (max 2); explanations (max 3); AV (max 2);			
	(b)		good questions about fishing (4);		
	5	ıa	yout (alternatives for two Q's) (1)	,	
	(c) (i)		alaria/bilharzia (guinea worm)/yellow fever/cholera/typlalid diseases;	hoid/dysentery/oth	ner 1
	(ii)	fe	ver/weight loss/sickness/tired/valid symptom;		1
	(iii) tra	ansfer to humans; from infected person;		2
4	(a) (i)		ore money to village; qualified; country gains money so chools/medicines/eq; more jobs; AVP;;	o more spent on	2
	(ii)		o much demand for ivory and poaching returns; too maled/eq; no more ivory; so no more money; AVP;	any elephants	2
	(b) (i)		o not like to see animals killed; tourists think they shoul onserved/eq; so tourists can see them; AVP;	d all be	2
	(ii)		lage needs money; needs to reduce elephant damage ephants kill villagers; AVP;	, qualified; some	2

TOTAL 60

AVP Alternative Valid Point