UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

## www.papaCambridge.com MARK SCHEME for the November 2004 question paper

## 0680 ENVIRONMENTAL MANAGEMENT

0680/04

Paper 4 (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.

CIE will not enter into discussion or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the November 2004 question papers for most IGCSE and GCE Advanced Level syllabuses.

<b>Grade threshol</b> November 2004		yllabus 0680 (	Environmenta	I Management	t) in the	Cambridge com
	maximum	mir	nimum mark re			
	mark available	А	С	E	F	
Component 4	60	42	32	25	19	

The threshold (minimum mark) for B is set halfway between those for Grades A and C. The threshold (minimum mark) for D is set halfway between those for Grades C and E. The threshold (minimum mark) for G is set as many marks below the F threshold as the E threshold is above it.

Grade A\* does not exist at the level of an individual component.



November 2004

INTERNATIONAL GCSE

MARK SCHEME

MAXIMUM MARK: 60

SYLLABUS/COMPONENT: 0680/04

ENVIRONMENTAL MANAGEMENT (Alternative to Coursework)

<b>a</b> g	e 1	Mark Scheme Syllabo Syllabo	
		ENVIRONMENTAL MANAGEMENT – NOVEMBER 2004 0680	~
			-0
(a)		Mark Scheme Syllabit   ENVIRONMENTAL MANAGEMENT – NOVEMBER 2004 0680   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) 1   table drawn (1); headings e.g. people/paths/wood for one day (2); 231;	3
(b)		table drawn (1); headings e.g. people/paths/wood for one day (2);	3
	(i)	231;	
		12078 or 12045 or 12012;	2
	• •		
(d)		sample more than one day; find weight of each bundle; repeats; at different times of year; AVP;	t 2
(e)		axes labelled; plots; orientation; scale; (R plots without scale one plot error = 0)	4
	• •	160; 220;	2
	(111)	1120 - 1350;	1
	(iv)	more households; more people in each household; more people; more mov into towns/eq; ref to improved standard of living/development; AVP (max 2)	
( <b>f</b> )	(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
		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 = food for animals/humans; AVP;	d
		<b>G2</b> slow growing trees preserved; protects soil from wind; and rain; AVP;	
		G3 more wood produced; protections of soil/crop; AVP;	
		<b>G4</b> prevents erosion; flooding; siltation; keeps clean water supply; animals from damaging banks; AVP;	4
(a)		clean water/less bacteria/disease; less polluted; clear not cloudy; time saved/eq; so other specified activity possible; AVP;	2
	• •	do not have knowledge to build; equipment; not able to find best site; or maintain it; cost qualified; AVP;	2
		they can learn to build wells/eq; maintain wells. 'ownership' of well; AVP; cost qualified (but not if already given in <b>(ii)</b> );	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 Syllabo	
T dge Z	ENVIRONMENTAL MANAGEMENT – NOVEMBER 2004 0680	2
<b>(a) (i)</b> to	o give energy/protein/body building/vitamins A and/or D/fish oils;	Cal
ŕ	Mark Scheme Syllabu   ENVIRONMENTAL MANAGEMENT – NOVEMBER 2004 0680   o give energy/protein/body building/vitamins A and/or D/fish oils; 0680   et size; mesh size; number of fishing trips/days/close season/quota; reare species/eq; ref to reproduction (max 2); explanations (max 3); / max 2);   e good questions about fishing (4);	turn AVP 6
	<b>5</b> • • • • • • • • • • • • • • • • <b>5</b> ( ),	
ا 5	ayout (alternatives for two Q's) (1) ;	
<b>(c) (i)</b> n	nalaria/bilharzia (guinea worm)/yellow fever/cholera/typhoid/dysentery/o	ther
	alid diseases;	1
<b>(ii)</b> fe	ever/weight loss/sickness/tired/valid symptom;	1
<b>(iii)</b> ti	ransfer to humans; from <i>infected</i> person;	2
	nore money to village; qualified; country gains money so more spent on chools/medicines/eq; more jobs; AVP;;	2
	oo much demand for ivory and poaching returns; too many elephants illed/eq; no more ivory; so no more money; AVP;	2
	o not like to see animals killed; tourists think they should all be onserved/eq; so tourists can see them; AVP;	2
• • •	illage needs money; needs to reduce elephant damage, qualified; some lephants kill villagers; AVP;	2
	ΤΟΤΑΙ	_ 60

AVP Alternative Valid Point