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#### UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

## 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.

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**Grade thresholds** taken for Syllabus 0680 (Environmental Management) in the November 2004 examination.

	maximum	minimum mark required for grade:				
	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.

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### November 2004

## **INTERNATIONAL GCSE**

# MARK SCHEME

**MAXIMUM MARK: 60** 

SYLLABUS/COMPONENT: 0680/04

ENVIRONMENTAL MANAGEMENT (Alternative to Coursework)

		my
Page 1	Mark Scheme	Syllabu
	ENVIRONMENTAL MANAGEMENT – NOVEMBER 2004	0680

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	Page 1	Mark Scheme ENVIRONMENTAL MANAGEMENT – NOVEMBER 2004	Syllabu 0680				
		ENVINORMENTAL MANAGEMENT - NOVEMBER 2004	0000	Co			
1	(a)	plan A or C; valid reasons such as only one path/not ever one day (max 2); AVP; R communication problems (no m		THE			
	(b)	table drawn (1); headings e.g. people/paths/wood for one	e day (2);	3			
	(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;					
	(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 into towns/eq; ref to improved standard of living/developm					
	(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 structuqualification; reduced organic content; ref to soil erosion/s AVP;		2			
	(iv	(iv) G1 to make more trees; acts as a seed bank; genetic resource; fruits = for animals/humans; AVP;					
		G2 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 from damaging banks; AVP;	er supply; animals	4			
2	(a) (i)	clean water/less bacteria/disease; less polluted; clear not saved/eq; so other specified activity possible; AVP;	cloudy; time	2			
	(ii)	do not have knowledge to build; equipment; not able to fin maintain it; cost qualified; AVP;	nd best site; or	2			
	(iii	they can learn to build wells/eq; maintain wells. 'ownershi cost qualified (but not if already given in (ii));	ip' of well; AVP;	2			
	(b)	clean water to drink; ref to passing bacteria/disease betw faeces and water; less gastric disorders; (clean water) to wash in; AVP; R pollution/mosquitoes/malaria		2			

	Page 2		Mark Scheme	Syllabu			
			ENVIRONMENTAL MANAGEMENT – NOVEMBER 2004	0680	2		
3	(a) (i)	to	give energy/protein/body building/vitamins A and/or D	Syllabu 0680 /fish oils;	di		
	(ii)	ra	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/typl ılid diseases;	hoid/dysentery/oth	er <b>1</b>		
	(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 shools/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