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### UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

GCE O Level

## MARK SCHEME for the June 2005 question paper

#### **5014 ENVIRONMENTAL MANAGEMENT**

5014

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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June 2005

## GCE O Level

# MARK SCHEME

**MAXIMUM MARK: 60** 

SYLLABUS/COMPONENT: 5014/02

ENVIRONMENTAL MANAGEMENT (Alternative to Coursework)

	Page 1		Mark Scheme Syllabu Syllabu	
			ENVIRONMENTAL MANAGEMENT – June 2005 5014	
1	(a)	(i)	Mark Scheme  ENVIRONMENTAL MANAGEMENT – June 2005  May;  April December;  July September:	no.
		(ii)	April December; July September;	[2]
		(iii)	June;	[1]
	(b)	(i)	<u>Farmers</u> - ref to crop damage/soil erosion/best planting time/e.g. AVP;	
		(ii)	<u>In city</u> - flooding/damage to stored foods/e.g.;. AVP such as medical precautions;	[2]
	(c)	(i)	10; well spaced/all along road;	[2]
		(ii)	Easy to empty/good access/eq;	[1]
		(iii)	Water runs through settlement/flooding; pathogens/eq from waste bin; spread of pathogens; from sewage; correct ref to malaria; AVP;	[2]
	(d)	(i)	SO <sub>2</sub> ; coal/from factories; NO <sub>x</sub> ; car exhaust; CO; open fires/incomplete combustion/cars; [R a source if not related to a correct gas. R CO <sub>2</sub> ].	[4]
		(ii)	Girls stay in cooking/eq;	[1]
		(iii)	Cleaner fuel in city/in cars/use biogas/move factories (to edge of city); R moving people.	[1]
	(e)	(i)	Open fires; overcrowding; shelters made from flammable material;	
		AVP;		[2]
		(ii)	Sewage removal; electricity; rubbish removal; schools; clinics/hospitals; AVP;	[2]
		(iii)	Drinking water contaminated; a valid reason; AVP;	[2]
2	(a)	(i)	Cash/crop/eq;	[1]
		(ii)	Sprayed less often;	[1]
		(iii)	Three good features such as colour/pest resistant/easy to pick/fast growth/AVP/AVP; (Note all answers must be relevant to farmers or their family) then each point qualified;;; [A cost of seed if qualified].	[4]
	(b)	(i)	So soil/climate/planting density/fertiliser/AVP - the same;;	[2]

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	Page 2		Mark Scheme Syllabu ENVIRONMENTAL MANAGEMENT – June 2005 5014	
<u> </u>		I	ENVIRONMENTAL MANAGEMENT GUILG 2000 0014	3
		(ii)	Mark Scheme ENVIRONMENTAL MANAGEMENT – June 2005  Ref to a random method/or described; A throw quadrat.	Orio
	(c)	(i)	Ref to gloves/masks/washing hands/do not eat/protective clothing.	[1]
		(ii)	230 46;	[1]
		(iii)	46/230 x100 = 20%;; [Allow consequential error from (ii);;].	[2]
		(iv)	All plots correct;; one mistake;	[2]
		(v)	Infested bolls increase as total bolls increase;	[1]
	(d)	Thre layou	ee good questions about growing cotton from the farmers perspective;;; ut;	[4]
3	(a)	(i)	To reduce soil erosion/reduce floods; maintain/improve soil fertility; more favourable climate; forest products in the future; AVP;; (AVP's such as refs living standard and employment).	[3]
		(ii)	Medicinal plants; disturb/hunt wildlife/macaques; AVP; Valid explanation (such as altering food chain);	[2]
	(b)	(i)	No value - not good food; cannot sell skins; too difficult to find; AVP;; Value - may allow ecotourism; religious view; AVP;;	[3]
	(c)		as such as: ating to <u>humans</u>	
		(i)	Dust blows into village; causes disease/named disease/condition; water poisoned;	
		Rela (ii)	ating to <u>environment</u> Explosions disturb wildlife; water courses poisoned; AVP;;	[4]
	(d)	•	valid points such as: control entry to shola; start limited ecotourism; mine magnesium away from water; and village/shoal; crop rotation; high value cash crop; high protein animal; intercropping in managed forest; maintain supply of wood/eq; foreity planation;	
		•	family planning; AVP;;;	[5]