MARK SCHEME for the October/November 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.

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	Page 2		Mark Scheme GCE O LEVEL – October/November 2008	Syllabus 5014	Paper 02				
	INDIA								
1	(a) (i)	1050; 350;							
	(ii)	lower labour costs; less regulation; AVP;			[1]				
	(iii)	metals recycled; less mining needed/eq; less energy used to produce metals;			als; [2]				
	(iv)	dangerous work/no safety procedures; fall of ship; e.g. of accident;			[2]				
	(b) (i)	site 2;							
	(ii)	site	1;		[1]				
	(iii)	highest reading on site 3 but this is not most polluted/eq;			[1]				
	(iv)	organotin, PAH's;;		[2]					
	(v)	tired; loss of weight; cancers; poor coordination/any nervous disorder;							
	(c) (i)	orie	ntation; scales; plots with key;;		[4]				
	(ii)	both have peak nearest ships/ both drop away further from ships; slower decline towards G/eq;							
	(iii)	orga	anotin, it is more soluble in water;		[1]				
	(d) (i)	poisons/toxins pass through food chains; ref to bioaccumulation/ biomagnification; high concs are lethal;							
	(ii)	sho	rt term profit/eq;		[1]				
	(iii)	buil	d dry docks; more samples taken; fine heavy polluters;	; AVP;	[2]				
2	(a) (i)	mov	ve to slum – all they can afford; find work there; AVF),	[2]				
	(ii)	lots	of industry inside slum; lots of low paid jobs in city;		[1]				
	(iii)	yellow fever/dengue fever/malaria spread by mosquito; cholera/typhoid spread by water;		[2]					
	(iv)	 v) sewage floods slum spreading bacteria into houses; drinking wa contaminated; bacteria can multiply in warm wet conditions; AVP; 		water [2]					
	(b) (i)		ple will demand compensation; city does not have Id have to provide permanent buildings;	alternative lan	d; city [2]				
	(ii)	lack	of trust; interfere with way of life; might have to pay ta	ixes; AVP;	[2]				
	(iii)	-	 only earn enough for basic needs; too expensive to live out; AVP; 	to live out/wag	es too [2]				

Page 3		Mark Scheme	Syllabus	Paper		
		GCE O LEVEL – October/November 2008	5014	02		
(a) (i)		only one sample point; not enough time; only counting/not weighing; would give different answer each time;				
(ii)	long	ger time; more sample points weighing;		[2]		
(iii)) all p	lastic and cardboard weighed/eq; AVP:		[1]		
(b)	150 +	375 = 525;;		[2]		
(c) (i)		more land fill sites/existing ones full; burning release athing problems; AVP;	s toxic fumes; c	causes [2]		
(ii)		terial/microbial decomposition/respiration; to minera kide; role of worms; ref to root absorption;	ls water and o	carbon [2]		
(iii)	Disa	antages – not transport cost in time/fuel; less in landfil advantages – liable to flood during monsoon; could y animals; AVP;		,		
(d) (i)	four	X two in shade; two in open;		[2]		
(ii)	ther	ck thermometer read the same; take readings mometers same distance from ground/comme mometer in direct sunshine; AVP;				
(iii)	tabl	e drawn; enough spaces; headings for columns/rows;		[3]		
(e)		have cooling effect; sustainable; no cost of equipme on saving; carbon neutral;	ent; cost of elec	ctricity; [2]		