UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the October/November 2008 question paper

0680 ENVIRONMENTAL MANAGEMENT

0680/04

Paper 4 (Alternative to Coursework), 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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UNIVERSITY of CAMBRIDGE International Examinations

Page 2	2 Mark Scheme Syllabus	
	IGCSE – October/November 2008 0680	Paper 04
DIA		
(a) (i)	1050; 350;	
(ii)	lower labour costs; less regulation; AVP;	
(iii)	metals recycled; less mining needed/eq; less energy used to produce met	tals;
(iv)	dangerous work/no safety procedures; fall of ship; e.g. of accident;	
(b) (i)	site 2;	
(ii)	site 1;	
(iii)	highest reading on site 3 but this is not most polluted/eq;	
(iv)	organotin, PAH's;;	
(v)	tired; loss of weight; cancers; poor coordination/any nervous disorder;	
(c) (i)	orientation; scales; plots with key;;	
(ii)	both have peak nearest ships/ both drop away further from ships; slower towards G/eq;	decline
(iii)	organotin, it is more soluble in water;	
(d) (i)	poisons/toxins pass through food chains; ref to bioaccum biomagnification; high concs are lethal;	ulation/
(ii)	short term profit/eq;	
(iii)	build dry docks; more samples taken; fine heavy polluters; AVP;	
(a) (i)	move to slum – all they can afford; find work there; AVP;	
(ii)	lots of industry inside slum; lots of low paid jobs in city;	
(iii)	yellow fever/dengue fever/malaria spread by mosquito; cholera/typhoid spread by water;	
(iv)	sewage floods slum spreading bacteria into houses; drinking contaminated; bacteria can multiply in warm wet conditions; AVP;	water
(b) (i)	people will demand compensation; city does not have alternative lar would have to provide permanent buildings;	ıd; city
(ii)	lack of trust; interfere with way of life; might have to pay taxes; AVP;	
(iii)	stay – only earn enough for basic needs; too expensive to live out/wag low to live out; AVP;	jes too

Page 3	Mark Scheme	Syllabus	Paper
U	IGCSE – October/November 2008	0680	04
(a) (i)	only one sample point; not enough time; only counting/not different answer each time;	t weighing; would	d give
(ii)	longer time; more sample points weighing;		
(iii)	all plastic and cardboard weighed/eq; AVP:		
(b) 1	50 + 375 = 525;;		I
(c) (i)	no more land fill sites/existing ones full; burning releases breathing problems; AVP;	s toxic fumes; ca	auses
(ii)	bacterial/microbial decomposition/respiration; to mineral dioxide; role of worms; ref to root absorption;	ls water and ca	arbon
(iii)	Advantages – not transport cost in time/fuel; less in landfill Disadvantages – liable to flood during monsoon; could stray animals; AVP;		
(d) (i)	four X two in shade; two in open;		
(ii)	check thermometer read the same; take readings thermometers same distance from ground/commer thermometer in direct sunshine; AVP;		
(iii)	table drawn; enough spaces; headings for columns/rows;		
• •	rees have cooling effect; sustainable; no cost of equipme collution saving; carbon neutral;	ent; cost of elect	tricity;