## **CAMBRIDGE INTERNATIONAL EXAMINATIONS**

**International General Certificate of Secondary Education** 

## MARK SCHEME for the May/June 2014 series

## 0680 ENVIRONMENTAL MANAGEMENT

**0680/41** 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, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2014 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



	Mark Scheme	Syllabus	Paper
	IGCSE – May/June 2014	0680	41
(a) (i)	85.4;17.08; (allow 85.5; 17.1)		[2
(ii)	Ethiopia; highest population; so more fertile women; women have more children that other countries/ref to 5.97; AVP, e.g. a valid point about better health;		
(iii)	difficult to get agreement between countries; environmental protests; who is going to invest/not enough revenue; IMF/world bank not supporting development; which countrivial be responsible for each section; lack of skills in countries (planning/building); ref. to war or civil war; AVP, such as political change;		
(iv)	many people employed (to build the project); trade within each country; so more jobs; gelectricity supply; more to spend on other infra-	government revenue; so	better housing
(v)	more trade between countries; South Suda exports possible;	an/Ethiopia linked to sea	port; so more
(vi)	much faster; least amount of material mov biodiversity area; replanting/landscaping; pollu	- ·	building in low [3
(b) (i)	yes because the whole project needs a port; 400 ha are used so damage limited even thougand money invested already to stop now; more	gh it is a world heritage site	
	OR no because large area of land destroyed ports/eq.; AVP;	; too expensive; damage	trade in existinç [3
(ii)	to export for foreign exchange; to pay for the p future; reduce coal imports;	project; to use in local powe	er stations in the [2
	g damage; long term poisoning/toxic gase ections/diseases; breathing difficulties/bronchiti		
(b) (i)	CABD; Accept ACBD.		[1
(ii)	50 80(%); 40 and 50 (m); Any two for one mark.		[2
(iii)	heavy duty so more copper/more money/eq.;		[1
	could pick up only light or heavy wire or or		

(ii) all types of wire in sample; more wire collected; more than one dump; more time;

separately;

(iii) more dumps sampled (so more representative); each type of wire sorted/weighed

[2]

[2]

	Mark Scheme	Syllabus	Paper
	IGCSE – May/June 2014	0680	41
(d) (i)	Two sensible questions. Such as any deaths from cathe household been in hospital? Men/women died market. to other illness.		as a member o
(ii)	Q with reason;		[1
(iii)	blows from the east (to the west); so more air polluti	on at Q than the ot	her settlements [2
	R (Q and R); they are close to a water channel so noply; or breeding mosquitoes;	nore chance of cont	aminated wate [2
(f) (i)	advantages: plastic does not need to be burn/im recycled; more copper recovered quickly; disadvantages: cost of machines; maintenance of rwork them; need for skilled labour;		
(ii)	impossible to enforce; the waste has to dealt with; primportant things to tackle first;	people have to mak	e a living; more [2
(a) (i)	both axes labelled;; plots; key;		[4
(ii)	plant height increases and then drops; so does the nu	umber of roots; ref. t	o figures; [3
(iii)	4 (5) cowpeas per m² this gives the most roots to more top growth;	sell; above this and	l less roots and [2
(iv)	cowpeas fix nitrogen in the soil/eq.;		[1
(v)	the cost of fertiliser keeps going up; it is made un change; soil degraded by the same crop and fertiliser		outes to climate [3
(b) (i)	31.6 38.2; <i>Ignore units.</i>		[1
(ii)	the yield with cowpeas is higher; in every year; the cowpeas still give higher yields; AVP;	plots have differen	t conditions bu [2
	AVP = Alternative Valid Point.		

**Mark Scheme** 

Syllabus

Paper

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