

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the November 2005 question paper

0680 ENVIRONMENTAL MANAGEMENT

0680/04

Paper 4

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*.

The minimum marks in these components needed for various grades were previously published with these mark schemes, but are now instead included in the *Report on the Examination* for this session.

- CIE will not enter into discussion or correspondence in connection with these mark schemes.

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RWANDA

- 1**
- (a) 7, 4; [1]
- (b) July, July [1]
- (c) axes correct; axes labelled; plots;; [4]
- (i) $1850/9250 = 20\%$;; [2]
- (ii) suitable rows/columns; headings;; [3]
- (iii) A; only based on one day/eq; [2]
- (e) plant at least $\frac{1}{2}$ hectare; make sure you have enough labour; AVP; [2]
- (f) (i) maize; [1]
- (ii) make expt more accurate/reliable/eq; [1]
- (iii) farm A = finger millet, maize;
farm B = all three crops;
+ two good reasons;; [4]
- (iv) size of pot; amount of water; type of soil; source of seed; AVP; [3]
- 2**
- (a) field 1; make rotation easier/eq; [2]
- (b) each row show rotation from original;; [3]
- (c) (i) 7200; 5300; [2]
- (ii) interception; qualified; [2]
- (iii) make sure no holes; same area; same time for collection; guard from animal attack; AVP; [3]
- (d) (i) A D E in open; B C F under trees; [2]
- (ii) more organic matter under trees/eq; soil erosion/harvesting in open; AVP; [2]
- 3**
- (a) valid negative point for each idea;;; [4]
- (b) carry out rotation; keep mix of crops; some animals/named animals;
keep some tress/do not cut down trees; plant some tress;
intercropping; do not spend too much on fertiliser/pesticide;
AVP;;; [max 5]

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- 4 (i) four correct counts from diagram; [1]
- (ii) R, most particles/more larger particles; [2]
P, least particles/least larger particles;
- (iii) plants – reduced growth/photosynthesis/eq; [3]
humans – lung diseases/named disease; dust toxic; AVP;
- (b) (i) taxes/revenue/improve growth of country/ AVP; [1]
- (ii) three valid questions well laid out;;; [4]

TOTAL 60