

# UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

GCE O Level

## MARK SCHEME for the November 2005 question paper

### 5014 ENVIRONMENTAL MANAGEMENT

5014/02

Paper 2

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

**TOTAL 60**