UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

GCE O Level

MARK SCHEME for the June 2005 question paper

5014 ENVIRONMENTAL MANAGEMENT

5014

Paper 2 (Alternative to Coursework), 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*.

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

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GCE O Level

MARK SCHEME

MAXIMUM MARK: 60

SYLLABUS/COMPONENT: 5014/02

ENVIRONMENTAL MANAGEMENT (Alternative to Coursework)



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|---|--------|-------|--|--------------|--------------------|
| | | | ENVIRONMENTAL MANAGEMENT – June 2005 | 5014 | 2 |
| 1 | (a) | (i) | May; | | [1] |
| | | (ii) | April December; July September; | | [2] |
| | | (iii) | June; | | [1] |
| | (b) | (i) | Farmers - ref to crop damage/soil erosion/best pla | anting time/ | e.g. AVP; |
| | | (ii) | In city - flooding/damage to stored foods/e.g.;. A precautions; | VP such a | s medical [2] |
| | (c) | (i) | 10; well spaced/all along road; | | [2] |
| | | (ii) | Easy to empty/good access/eq; | | [1] |
| | | (iii) | Water runs through settlement/flooding; pathoger spread of pathogens; from sewage; correct ref to | | |
| | (d) | (i) | SO ₂ ; coal/from factories; NO _x ; car exhaust; CO; open fires/incomplete combustion/cars; [R a source if not related to a correct gas. R CO ₂] | | [4] |
| | | (ii) | Girls stay in cooking/eq; | | [1] |
| | | (iii) | Cleaner fuel in city/in cars/use biogas/move factor R moving people. | ries (to edg | e of city); [1] |
| | (e) | | | | |
| | | AVP | | | [2] |
| | | (ii) | Sewage removal; electricity; rubbish removal; sch clinics/hospitals; AVP; | ools; | [2] |
| | | (iii) | Drinking water contaminated; a valid reason; AVF |). | [2] |
| | | | | | |
| 2 | (a) | (i) | Cash/crop/eq; | | [1] |
| | | (ii) | Sprayed less often; | | [1] |
| | | (iii) | Three good features such as colour/pest resist growth/AVP/AVP; (Note all answers must be retheir family) then each point qualified;;; [A cost of | elevant to f | armers or |
| | (b) | (i) | So soil/climate/planting density/fertiliser/AVP - the | same;; | [2] |

| | (ii) | Ref to a random method/or described; A throw quadrat. | [1] | | |
|-------|---|---|-----------------|--|--|
| (c) | (i) | Ref to gloves/masks/washing hands/do not eat/protective clothing. | [1] | | |
| | (ii) | 230 46; | [1] | | |
| | (iii) | 46/230 x100 = 20%;; [Allow consequential error from (ii);;]. | [2] | | |
| | (iv) | All plots correct;; one mistake; | [2] | | |
| | (v) | Infested bolls increase as total bolls increase; | [1] | | |
| (d) | | Three good questions about growing cotton from the farmers perspective layout; | | | |
| 3 (a) | (i) | To reduce soil erosion/reduce floods; maintain/improve soil fertility more favourable climate; forest products in the future; AVP;; (AVP's such as refs living standard and employment). | | | |
| | (ii) | Medicinal plants; disturb/hunt wildlife/macaques; AVP; Valid explanation (such as altering food chain); | d [2] | | |
| (b) | (i) | No value - not good food; cannot sell skins; too difficult to find; AVP;; Value - may allow ecotourism; religious view; AVP;; | [3] | | |
| (c) | Ideas such as: Relating to <u>humans</u> | | | | |
| | (i) | Dust blows into village; causes disease/named disease/condition water poisoned; | 1; | | |
| | Rela (ii) | ating to <u>environment</u> Explosions disturb wildlife; water courses poisoned; AVP;; | [4] | | |
| (d) | Five • • • • • | e valid points such as: control entry to shola; start limited ecotourism; mine magnesium away from water; and village/shoal; crop rotation; high value cash crop; high protein animal; intercropping in managed forest; | | | |
| | • | maintain supply of wood/eq; family planning; | | | |

Mark Scheme
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