0670/4 NATURAL ECONOMY MARKING SCHEME   JUNE 2002

1a. 800(km);   1

b. higher rainfall for San Cristobal/converse; more humid in San

Cristobal(any month)/converse; use of figures for comment on

max rainfall July(M) September (SC); length of rainy seasons;

ranges of values;; AVP;   3

2a. 356;   1
b   trees;   1
   ii 178/356x100; =50; (%)   1

3a Z with reason;   1
 b. X with reason;   1
 c Y with reason;   1
                        A text reason for a,b,c

4 a Suggest apparatus such as – camera; sketchbook/notebook;

sample bags; marker pens; quadrat; tapes/metre rulers; AVP; 3

b one sensible suggestion, eg seeds/fruits/flowers/ root or

stem samples; AVP; R any large scale samples   1

AVP   =   Alternative versions possible

R   =   Reject

5 a B;   1

ii all directions sampled; samples equally spaced; same size

sample; repeatable; AVP;;   3

b if B then path 1 or 2 or both; 4 or 5 or both;

if A then regular marks (2 minimum); on each path radiating

from village centre;   2

6 a) good table; columns and rows labelled; for 4 types of plant

and three distances;;   4

b plots;; both axes labelled; key and scale; max 3 if orientation
wrong   4

c trees, small decline over 3 years/eq;   1

   herbs, fluctuating but about the same/eq;   1

d tree species decline/trees do not recover in 3 years/eq;   1

   ii herb species not affected/eq; AVP;   1

7 a more money; raise standard of living; better health care;
more schooling; AVP;; eg risk of accident due to lack of
training   3

ii may get work to support oil company; more crops
needed/higher value; increse in poverty; less wild food as
damaged/ habitat disturbed or destroyed; more disease; AVP::
eg crime
                                                                                  3

8 a sustainable because, plenty of silver bromide/salt/silver;use
of existing salt pans; little environmental damage; qualified eg
no more roads or pans needed; no need to cause pollution;
AVP::   5

b earn foreign exchange; more jobs; better communications;
more education; AVP;   3

9 a more daylight hours; warmer; best light intensity;   2

b advantage – sheltered from wind/not visual eyesore; AVP; 1

   disadvantage – flooding risk; poor access/eq; AVP;   1

c rare species do not become extinct/ are conserved; educate people about rainforests; act as gene banks; AVP;; eg for research   4

d taxation; donation; AVP;; eg pollution taxed

     R tourism to pay   2.

   Ii more people can see tropical rainforest; educate more people; more plants saved; research possible; AVP;   1

   E rainforest people know where to find seeds; can fine rare seeds; the seeds which germinate; grow quickly; AVP;   2

TOTAL 60