SLIATE

SRI LANKA INSTITUTE OF ADVANCED TECHNOLOGICAL EDUCATION

(Established in the Ministry of Higher Education, vide in Act No. 29 of 1995)

Higher National Diploma in Technology (Agriculture)
Second Year, Second Semester Examination – 2015
AG2214 - Integrated Farming System & Agroforestry

Instructions for Candidates:	No. of questions : 06
Answer all questions from part I and any three(03) from part II	No. of pages : 03
All questions do not carry equal marks	Time : Two(2) hours.

Index Number…………………………………………

Part I

Structured Questions

Q1.

i.   Name three basic types of inputs used in a farming system.

   a.   ……………………………………………

   b.   ……………………………………………

   c.   ……………………………………………

(3 marks)

ii.   Define the term "Organic Farming".

   ……………………………………………………………………………………………………

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   ……………………………………………………………………………………………………

(5.5 marks)

iii.   Name four types of cropping systems.

   a. ……………………………………………………………………………………………..

   b. ……………………………………………………………………………………………..

c. …………………………………………………………………………………………………

d. …………………………………………………………………………………………………

(4 marks)

(Total 12.5 marks)

Q2.

i. Name the main components of a agroforestry system.

a) …………………………………………………………………………………………….

b) …………………………………………………………………………………………

c) …………………………………………………………………………………….(3 marks)

ii. What do you mean by "agrosilvopastoral system"?

……………………………………………………………………………………………

……………………………………………………………………………………………

(4 marks)

iii. Give three positive effect of agroforestry system on soil.

a.
………………………………………………………………………………………

b. ………………………………………………………………………………………
    .
c. ………………………………………………………………………………………

(3 marks)

iv. Give two negative effects of agroforestry system.

a) …………………………………………………………………………………………

b) ………………………………………………………………………………….. (2 marks)

(Total 12.5 marks)

PART- III   Answer three questions only

Q3.

  i.   What are the benefits of a forest to the people?   (5 marks)
  ii.   Compare and discuss the advantages of agroforestry over agriculture.
                                                                            (20 marks)
                                                                     (Total 25 marks)

Q4.

  i.   What are the reasons for shifting cultivation **no**t being considered as a sustainable
         cropping system?   (7 marks)
  ii.   Describe different ways of classifying farming systems.   (18 marks)
                                                                     (Total 25 marks)

Q5.

  i.   List important considerations in selecting species for agroforestry systems.
                                                                            (5 marks)
  ii.   Explain the social advantages of agroforestry systems to the community.
                                                                            (20 marks)
                                                                     (Total 25 marks)

Q6.

Propose a suitable export agricultural crop based mixed cropping model for 1ha land in Kandy
district.

  i.   Draw the field layout with the components.   (12 marks)

  ii.   Name and label the essential components of the model.   (8 marks)

  iii.   List the important things you have considered in designing the model. (5 marks)
                                                                     (Total 25 marks)