



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 – 2016
AG2214 - Integrated Farming System & Agroforestry**

Instructions for Candidates:

Answer all questions in part I on the paper
Answer only three (3) questions in part II
All questions do not carry equal marks

No. of questions : 06
No. of pages : 03
Time : Two (2) hours

Index Number.....

Part I

Q1 i) Name three sub systems of a farming system.

- a.
- b.
- c. (3 marks)

ii) List four factors affecting for the development of a farming system.

- a.
- b.
- c.
- d. (4.5 marks)

iii) List five characteristics of a farming system.

- a.
- b.
- c.
- d. (5 marks)
- e. (Total 12.5 marks)

Q2 i) Name four criteria used in economic evaluation of agroforestry practices.

- a.....
- b.....
- c.....
- d..... (4 marks)

ii) List five ecological advantages of agroforestry.

- a.....
- b.....
- c.....
- d.....
- e..... (2.5marks)

iii) Give three examples for “agrosilvicultural” system.

- a.....
- b.....
- c..... (3 marks)

iv) Name three social advantages of agroforestry system.

- a.....
- b.....
- c..... (3 marks)

(Total 12.5 marks)

Part- II

Answer three questions only

- Q3. i Briefly explain the structure of the Kandyan home garden. (15 marks)
ii Give advantages of Kandyan home garden. (10 marks)
(Total 25 marks)
- Q4. i Explain the main objectives of establishing farming systems. (15 marks)
ii Give reasons for having different objectives for farming systems. (10 marks)
(Total 25 marks)
- Q5. i Name the three type of interactions existed in Agroforestry (09 marks)
ii Briefly explain the interactions existed in Agroforestry systems. (16 marks)
(Total 25 marks)
- Q6. Design a suitable integrated farming system to the 5ha land in Anuradhapura district of Sri Lanka according to the following points.
- i. Draw the field layout with the components (07 marks)
ii. Name the essential components of the model (08 marks)
iii. Give reasons for introducing main five components of your design (05 marks)
(Total 25 marks)