

Faculty of Animal Science & Export Agriculture  
Uva Wellassa University of Sri Lanka

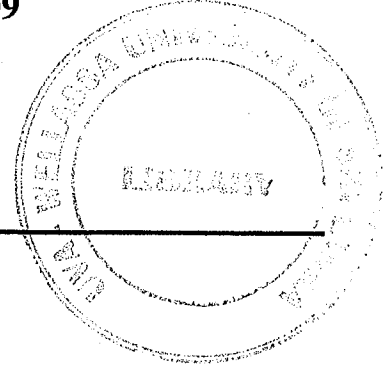


Uva Wellassa  
University

B.ASc. Degree Program  
Year IV Semester I  
End Semester Examination – December 2009

ANS 421-2 Livestock Farming System

Essay Questions (Section II)



**Instructions:**

Answer all questions in Section II in booklets provided.

No. of questions : Two (02)  
No. of pages : One (01)  
Time : One hour (1 hr)  
Total marks allocated : 60%

Index No:

(1)

Mr. Disanayake is planning to establish an integrated Vegetable-Cattle Farm in Kandapola Village in Nuwara-Eliya District of Up-Country Wet-Zone. The key features of the planned system are stated below.

- Total land area of the farm – 3 ha
- Number of cattle to be managed – 4 milking cows of Jersey breed
- Feeding of cattle – Daytime outfield grazing and stall feeding in the night using infield grown pastures
- Concentrate supplement – Formulated dairy cattle feed of required amount
- Farm products – Use for family consumption and sell at nearby market
- Labour – Family labour is to be used

- (a) Identify the “mode of farming” and describe the N flow of the system using a diagram.
- (b) Describe the features of key interfaces of the system.
- (c) Describe the limitations he would expect in establishing and operating the system.

(2)

- (a) Define “hard system methodology” (HSM) in farming system research.
- (b) Discuss the following statement.  
“Hard system methodologies alone are not adequate for comprehensive study of farming systems and therefore soft system methodologies are useful to be incorporated in system analysis.”

[End of Section II]