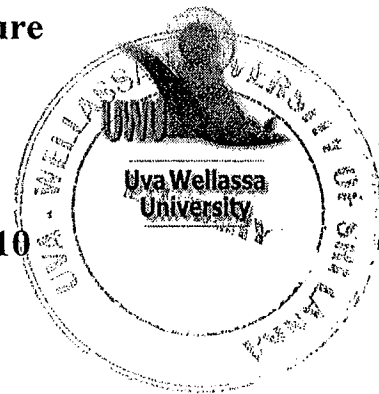


Faculty of Animal Science & Export Agriculture
Uva Wellassa University of Sri Lanka

BASc Degree Program
Year III Semester II
End Semester Examination – June / July 2010

ANS 321-2 Livestock Farming System

Essay Questions (Section II)



Instructions:

Answer questions in Section II in booklets provided.

No. of questions : Two (02)

No. of pages : Two (02)

Time : One hour (1 hr)

Total marks allocated : 60%

Index No:

1.

Mr. Gunasekara is planning to establish an organic, cattle - paddy integrated farming system in Soranathota village in Badulla District.

The key features of the planned system are stated below.

- Land allocation – 3 ha Lowland for paddy farming and 0.5 ha Upland for other purposes (housing, cattle shed etc.).
- Indigenous breed cattle – 4 cows to get manure and 2 bulls for draft purpose in the paddy field.
- Feeding for cattle – Daytime outfield grazing and stall feeding in the night using paddy straw.
- Farm products – Use for family consumption and sell at nearby market.
- Labour – Family labour is to be used.

(I) Identify the “mode of farming”.

(II) Propose a model (diagram) in order to indicate N and energy flows of the system. Show the relative importance of relationships in the model.

(III) Describe the features of key interfaces of the system.

(IV) Describe the limitations he would expect in establishing and operating the system.

2.

- (I) Compare EXPAGR and HEIA modes of agricultures in relation to mix-blessings and curse.
- (II) Describe the followings.
- a) The importance of soft system methodologies in farming system research. (You are not expected to describe the importance of different methodologies separately.)
 - b) The SWOT analysis and give an example from SWOT analysis done in Peri-urban cattle farming system for each of the components (i.e. Strengths, Weakness, Opportunities and Threats) of the analysis.

[End of Section II]