

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

**BASc Degree Program**  
**Year II Semester II**  
**End Semester Examination –Sept/Oct 2012**



**Livestock Farming Systems (ANS 222-2)**

**Essay Questions (Section II)**

**Instructions:**

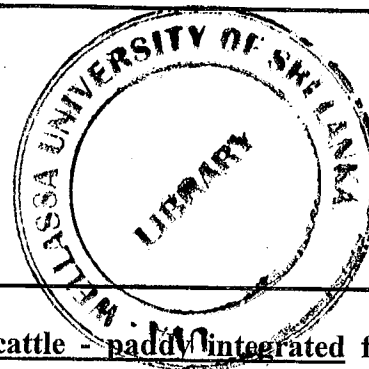
Answer questions in Section II in booklets provided.

No. of questions : Two (02)

No. of pages : Two (02)

Time : One hour (01 hr)

Total marks allocated : 60%



1. Mr. Randeniya 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 – **3 cows** to get manure and **2 bulls** for draft purpose in the paddy field.
- Feeding for cattle – Daytime **infield or roadside grazing** and stall feeding in the night using paddy straw.
- Farm products – Use for family consumption and sell at nearby market.
- Labour – **Family labour** and **two hired labourers** are to be used.

- I. Identify the “**mode of farming**” (05 marks)
- II. Propose a **model** (diagram) in order to indicate the energy flow among the each component and describe the **features of key interfaces** of the system. (35 marks)
- III. Briefly describe the limitations he would expect in establishing and operating the system. (10 marks)

2. Suggest a suitable **integrated fish - livestock farming system** to be established in **Uva Wellassa university premises** as a model farm. Describe about the suitable fish species, livestock breeds for integration, production potentials and constraints related to establishment and operation of the farming system.

(50 marks)

[End of Section II]