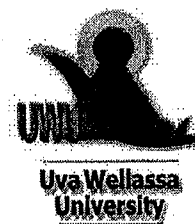


**Uva Wellassa University of Sri Lanka**  
**Faculty of Animal Science & Export Agriculture**



**BASc Degree Program**  
**Year IV Semester I**  
**End Semester Examination – Feb/ March, 2012**

**ANS 342-2 Livestock Farming System**

**Essay Questions (Section II)**

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**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%

Index No:

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**(1) 50 marks**

Following is a general description of the cattle farming system in Eastern province, Sri Lanka.

Most of the cattle farmers maintain large local cattle herds. These herds graze on unimproved grass and shrubs naturally grown on uncultivated paddy fields, lakesides, forests, etc. Concentrates and minerals are not supplemented while breeding is not controlled. Cows may be milked once a day and milk is sold for neighbors for consumption. Cattle are sold for meat whenever farmers require money particularly for paddy farming.

Assume that the government has proposed to improve the above farming system by improving genetic makeup of the herds using imported Sahival semen and better feeding. Under the proposed farming system the cattle will be fed on Total Mixed Rations (TMR) in stalls. Cows will be machine milked and a systematic culling procedure will be adopted. Value added milk products, compost and culled animals will be sold at Colombo market.

Base on the above details answer the following;

- (I) Identify the present mode of farming and the planned mode of farming. Draw a diagram to show the changes of resource flows that can be expected when the present mode of farming is changed to the proposed mode of farming. Thick and thin arrows may be used to indicate the increase and decrease of each resource flow, respectively.
- (II) Identify the three (3) key interfaces of the farming system and describe the significant changes should be expected between the present and proposed modes of farming.

(2) 50 marks

- (I) Define farming system according to systematic approach (hard system methodology).
- (II) Compare EXPAGR and HEIA modes of agricultures in relation to mix-blessings and curse.
- (III) "Farmers may always not achieve the objectives of mix farming". Explain the reasons.

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[End of the question paper]