



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



BASc Degree Programme
Year III Semester I
End Semester Examination - February 2011 /April 2011 (Repeat)

ANS 331-2 Ornamental fish breeding and production
Essay (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:

01. Write an essay on " Strategies to increase production of ornamental fish in Sri Lanka for export market" Your answer should indicate the existing problems in the industry and the measures to overcome the problems.

02. Use the information given below to answer the questions 1 to 4.

Monthly production target – 10000 numbers

Survival rates at grow out phase -80%; Survival rates at nursery phase – 60%;

Allocation for the backup brood stock – 20%;

Male to Female ratio – 1:3;

Each female produce 400 post larvae at one breeding cycle and there are 3 breeding cycles/year

Stocking densities : Brood stock – 100/m², Nursery – 400 /m², Grow out –150 /m², Replacement –150 /m²,

1. Calculate the number of fry required for grow out tanks to achieve the above target
2. Calculate the number of Post larvae required for nursery stage
3. Calculate the required brood stock
4. Calculate the required tank spaces separately for grow out phase, nursery phase, replacement brood stock and brood stock

End of Section II