

Uva Wellassa University of Sri Lanka

Faculty of Animal Science and Export Agriculture

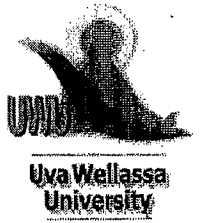
BSc in Aquatic Resources Technology Degree Programme

Year III Semester II

End Semester Examination – September/October 2012

AQT 352-2 Fishing Gear Technology

Part III-Essay



Instructions

Answer all questions.

No. of questions : Two (02)

No. of pages : One (01)

Time : 45 Minutes

Total marks allocated :- 40 marks

Index No:

1. A fish stock (small pelagic, fast swimming and schooling) consists of 10^8 individuals at time "0". The natural mortality rate applicable is 0.5 / year. From the second year onwards, the stock is subjected to a fishing mortality rate of 1.7 / year.

(a) Using the equation $N_t = N_0 e^{-Zt}$, calculate the fish numbers surviving annually (calculate only for the first 05 years). (10 marks)

(b) What sort of a fishing gear you recommend to harvest the above fish. Assume the fishermen have only non-motorized (traditional) fishing crafts. (05 marks)

2. Write short notes on the following.

(a) Gill net selectivity (05 marks)

(b) Facilities available in multi-day fish boats (05 marks)

(c) Classification of fishing gear (05 marks)

(End of Section III)