



The Open University of Sri Lanka  
 Faculty of Engineering Technology  
 Diploma/Degree in Industrial Studies (Agriculture)

Final Examination- 2009 / 2010

AEI 5230 Fisheries and Aquaculture

Date : 13 -03 - 2010  
 Time : 0930-1230 hours  
 Duration : Three (3) hours.

SECTION II

1. a.) What is meant by integrated fish farming?  
 b.) List advantages of livestock – rice – fish integration.  
 c.) Explain the selection criteria of pig breeds for fish - pig integrated farming system.
  
2. Discuss the ornamental fish industry in Sri Lanka under following topics.
  - i. Reasons for low contribution to the export market.
  - ii. Draw backs
  - iii. Suggestions to improve ornamental fish industry.
  
3. a.) What is/are the objective/s of having hatcheries in shrimp industry?  
 b.) Explain the feeding procedures during following stages of shrimp farming.
  - i. Hachery
  - ii. Nurseries
  - iii. Grow out ponds
  
4. (a) What is meant by *rigor motis*?  
 (b) Explain different stages of *rigor motis*.  
 (C) Mention the characteristic patterns of the deterioration of fish stored in ice and explain the different phases.  
 (d) Explain the following terms regarding fish deterioration,
  - i. Autolysis
  - ii. Oxidation and hydrolysis
  
5. (a) Classify the aquatic plants based on growth habit.  
 (b) Critically evaluate the economic importance of aquatic plants.

6. Write an account on any four (04) of the following
- (a.) Utilization of fish feeds focusing on how to distribute, where to distribute and when to distribute.
  - (b.) Mollusc culturing methods
  - (c.) Factors affecting shrimp production.
  - (d.) Integrated system rearing duck with fish.