

The Open University of Sri Lanka  
Bachelor of Science Degree Programme  
Final Examination : 2012 /2013 - Level 5  
Course code : ZOU3162 / ZOE5162  
Course Title : Fish and Fisheries Biology  
Duration : Two and half hours (2 ½ hrs)



---

Date - 2013.12.18

Time - 1.30 p.m- 4.00 p.m

---

Answer **any four (04)** questions.

Wherever necessary illustrate your answers with clearly labeled diagrams

---

1. Describe how mark and recapture methods could be used to estimate the size of a fish population .
2. Write an account on the marine fishing methods used in Sri Lanka.
3. Explain how fishes maintain their osmotic balance. .
4. Discuss the morphological adaptations and behavioural patterns shown by fish to ensure the maximum survival of their progeny.
5. (a) Describe the methods that could be used to determine the age of tropical fish.  
(b) Briefly discuss why is age determination important in fisheries studies.
6. Write short notes on any **two (02)** of the following.
  - (a) Freshwater fishery resources of Sri Lanka.
  - (b) Fish yield.
  - (c) Fish scales.
  - (d) Growth models of fishes.