



RAJARATA UNIVERSITY OF SRI LANKA  
FACULTY OF APPLIED SCIENCES, MIHINTALE

B.Sc. (General) Degree in Applied Sciences  
Second year – Semester I Examination – October/November 2015

BIO 2211 - FISH BIOLOGY

Time: Two (02) hours

Answer four (04) questions only.

Illustrate your answers with labeled diagrams where appropriate.

1. a) Name the primary forces that act on the body of a fish during its locomotion and mention how they affect its locomotion.  
b) "The efficiency of undulatory motion increases with the decreasing of body length". Critically evaluate this statement giving suitable examples.
2. a) "Gills of bony fish are comparatively efficient than those of cartilaginous fish". Comment on this statement.  
b) Describe the breathing mechanism of bony fish.
3. a) Illustrate the structure of the fish eye.  
b) "Many carnivorous fish have a perfect vision during both day and night periods". Appraise this statement.
4. With appropriate examples, discuss the different types of direct nurseries exhibited by fish during their parental care.
5. Write short notes on any four (04) of the following.
  - a) Carnivorous feeding behaviours in fish
  - b) Vessels in the anterior region of the fish body
  - c) Osmoregulation in freshwater fish
  - d) Fixing and preservation of fish for laboratory examination
  - e) Digestion in the stomach of fish