



University of Ruhuna- Faculty of Technology
Bachelor of Biosystems Technology Honours
Level 1 (Semester II) Examination, November / December 2022
Academic year 2020 / 2021

Course Unit: BST 1272
Introduction to Fisheries Biology

Duration: 1 hour and 30 minutes

Student No:

Pease **read** and **follow** the instruction carefully before answering the questions.

- Answer **All Two (02)** questions in **PART I** in the given space.
- Answer **Only Two (02)** question in **PART II**.
- Use the separate book for answering the question in **PART II**.
- Each question should be started with new page.
- Calculators and mobile phones are not allowed

Question 2 (100 Marks)

Fish, the member of the Kingdom Animalia is classified into Phylum Chordata and Subphylum Vertebrata.

- I. List out **five (05)** major characteristics of fish to become the member of the Phylum Chordata **(25 Marks)**.

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- II. Mention **three (03)** specific characters of sub phylum Vertebrata. **(15 Marks)**.

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- III. Write down **three (03)** taxonomic tools which are used in classification of fish **(15 Marks)**

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- IV. Illustrate the conventional classification of modern fish by giving **three (03)** characterized features of each category **(30 Marks)**.

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V. Point out the importance of given organs of fish for the survival in the aquatic environment (15 Marks)

a). Swim bladder

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b). Lateral line

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c). Gills

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PART II – Essays

Answer two (02) questions only

Question 1 (100 Marks)

Write an essay on the methods available for fish stock assessment to identify the unit stock.

Question 2 (100 Marks)

Write short notes on **any four (04)** of following topics.

- a) Non-guarder fish (25 Marks)
- b) Feeding adaptations of fish (25 Marks)
- c) Life cycle of fish (25 Marks)
- d) Fisheries co-management (25 Marks)
- e) Capture fishery Vs. Culture fishery (25 Marks)

Question 3 (100 Marks)

Discuss the reproductive / breeding behaviors of fish.

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