University of Ruhuna- Faculty of Technology
Bachelor of Biosystems Technology Honours Degree
Level 2 (Semester II) Examination, November / December - 2023
Academic year 2021/2022

Course Unit: BST 2262 – Statistical Applications in Biosystems Technology (Theory)

Duration: 1 hour and 30 minutes

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

- Answer Only **Three (03)** questions.
- Use separate book for answering the questions.
- Each question should be started with a new page.
- Calculators and mobile phones are not allowed.

Question 01 (100 Marks)

Discuss how statistical analyses and data interpretation play a pivotal role in addressing challenges and optimizing outcomes in various fields.

Question 02 (100 Marks)

Write a comment on **any two (02)** of the following.

   a) Hypothesis construction **(50 Marks)**

   b) Probability sampling **(50 Marks)**

   c) Regression Analysis **(50 Marks)**

Question 03 (100 Marks)

Explain different distribution patterns of data sets.

Question 04 (100 Marks)

Write a short account comparing the use of Descriptive Statistics and Inferential Statistics.

................End of the paper................