

Part-II only



FACULTY OF FISHERIES AND MARINE SCIENCES & TECHNOLOGY

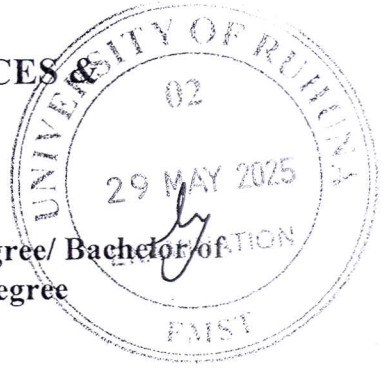
Academic year 2023/2024

Bachelor of Science Honors in Fisheries and Marine Sciences Degree/ Bachelor of Science Honors in Marine and Freshwater Sciences Degree

Level II, Semester-II Examination – April/May 2025

FDN 2221: Computer Literacy – IV (Theory)

Time: 01 Hour and 15 Minutes



Index Number: .....

INSTRUCTIONS

Please read the instructions carefully before answering the paper.

- Number of Pages: Nine (09)
  - There are two (02) parts in the question paper.
    - Part I
      - Contains 25 MCQ questions.
      - Each question has 5 answers a, b, c, d and e.
      - Circle the correct answer (e.g., ©. Correct answer.)
      - Only one answer should be marked in each question. If more than one answer is marked for a question, that question will not be evaluated.
    - Part II
      - Contains two (02) structured questions.
- Answer all the questions.

Office Use Only			
Question No.		1 <sup>st</sup> Marking	2 <sup>nd</sup> Marking
Part I	MCQ		
Part II	1		
	2		
Total			

Part II

Question 01

(25 Marks)

- a) Write a Python program to accept an integer from the user and display whether the number is positive, negative, or zero. (06 Marks)

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- b) Fill in the blanks in the following Python program which calculates the sum of all even numbers from 1 to a given number:

(06 Marks)

```
n = int(input("Enter a number: "))  
total = 0  
for i in range(1, _____): # Fill 1  
    if i % 2 == 0:  
        total = total + _____ # Fill 2  
print("Sum of even numbers:", _____) # Fill 3
```

- c) Write a Python function named count\_evens(numbers) that returns the number of even numbers in a list.

(05 Marks)

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- d) The following Python code is intended to print all numbers in a list except the number 0. It contains a logical mistake. **Identify and correct the error.** (03 Marks)

```
numbers = [4, 0, 7, 0, 5]
for number in numbers:
    if number = 0:
        continue
    print(number)
```

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- e) **Write** code blocks to form a working Python program that reads a temperature in Celsius and converts it to Fahrenheit using the formula:

$$F = C * 9/5 + 32.$$

(05 Marks)

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Question 02

(25 Marks)

a) State whether the following statements are **True** or **False** with respect to the python programming language.

(08 Marks)

1. NumPy is a library used for data visualization in Python.

(.....)

2. The .ndim attribute in NumPy returns the number of dimensions in an array.

(.....)

3. The sum() function in Python can only be used with lists, not arrays.

(.....)

4. The mean() function from NumPy returns the average value of array elements.

(.....)

b) Scenario:

You have the following 2D array:

```
import numpy as np
```

```
arr = np.array([[10, 20, 30], [40, 50, 60]])
```

i. Write a Python statement to access the value **50** from this array.

(2 Marks)

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ii. Write a Python statement to slice and print the **first two elements of the second row**.

(2 Marks)

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iii. Write a python code to iterate on the elements of the above 2D-array.

(2 Marks)

