

Part II only



UNIVERSITY OF RUHUNA
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 I, Semester-II Examination – April/May 2025

FDN 1221: Computer Literacy – II

Time: 01 hour and 15 Minutes

INSTRUCTIONS

Index Number:

Please read the instructions carefully before answering the paper.

- Number of Pages: Eight (08)
- 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.

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

Answer all questions

Part II

Question 01

(25 Marks)

I.

a) Provide a brief explanation of Database Management System (DBMS) and its importance.

(03 Marks)

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b) Briefly describe two types of database relationships used in Microsoft Access, with suitable examples.

(04 Marks)

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c) What is the significance of a Primary Key in a database table?

(03 Marks)

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d) Complete the table below with the correct Microsoft Access objects used for the given tasks.

(04 marks)

Task	Object
Store structured data	
Retrieve specific data based on conditions	
Enter, view, or edit data in a user-friendly way	
Display data in a printable format	

II.

a) Assume you have a table named Students with the following fields:

Students Table Structure:

- StudentID (AutoNumber – Primary Key)
- Name (Text)
- Grade (Number)
- Class (Text)

Write a query to display the names of students who scored more than 75 marks.

(04 marks)

Step	Input
Table to select fields from	
Fields to display in the query	
Criteria for filtering (if any)	
Sort order (if any)	

b) Fill the blanks in the table to write a query to sort students by Grade in descending order using the Query Wizard. (04 Marks)

Step	Input
Table to select fields from	
Fields to display in the query	
Criteria for filtering (if any)	
Sort order (if any)	

c) List three common uses of a Database Management System (DBMS) in real-world applications (03 marks)

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Question 02

(25 marks)

I.

a) Write the C++ code to perform the following tasks. (09 marks)

i. Declare an integer variable x and initialize it to 10.

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ii. Write a **for** loop to print numbers from 1 to 5.

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iii. Create a function named "add" that takes two integers as parameters and returns their sum.

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b) Explain the difference between a **while loop** and a **do-while loop** in C++. (04 Marks)

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c) Write the output of the following C++ codes. (05 marks)

```
#include <iostream>
using namespace std;
int main() {
    int x = 5;
    int y = 10;
    if (x > y) {
        cout << "X is greater";
    } else {
        cout << "Y is greater";
    }
    return 0;}
.....
```

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#include <iostream>
using namespace std;

int main() {
    int sum = 0;
    for(int i = 1; i <= 3; i++) {
        sum += i;
    }
    cout << "Total: " << sum;
    return 0;
}
.....
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```



II.

- a) Write the C++ code to declare an array of 5 integers and assign values 10, 20, 30, 40, 50 to it. Then print the 3rd element. (03 marks)

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- b) List four C++ data types with examples. (04 marks)

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3.
4.

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