UNAM

FACULTY	**AGRICULTURE, ENGINEERING & NATURAL SCIENCES**		
SCHOOL	**SCHOOL OF SCIENCE**		
SUBJECT	**PROGRAMMING FUNDAMENTALS I**		
SUBJECT CODE	**S3531DP**		
DATE	**JUNE 2026**		
DURATION	**3 HOURS**	**MARKS**	**100**

FIRST OPPORTUNITY EXAMINATION

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Internal Moderator: Dr. M.N. Ntinda (University of Namibia)

This question paper consists of **4** sections and **3** printed pages including this cover page. Ensure that you have a completed paper.

Instructions

1. *This is a closed book examination and all regulations for such examinations hold.*
2. *Work in an orderly way and present your work as neatly as possible.*
3. *While most of the marks will be awarded for content, candidates must bear in mind the importance of presentation, i.e. insight and critical thinking.*
4. *Number your questions correctly and clearly.*
5. *Answer all the questions in each section.*

UNIVERSITY OF NAMIBIA EXAMINATIONS

SECTION A **True/False** **[10 MARKS]**

a) Debugging High Level programming languages is complex (1 mark)

b) Low level programming languages require a complier for translation (1 mark)

c) A compiler takes the entire program in one go (1 mark)

d) A pseudocode is a pictorial representation of the logic steps (1 mark)

e) The float type in Python designates a decimal number. (1 mark)

f) The float does not returns floating-point object constructed from a number (1 mark)

g) High level programming languages are widely used for programming (1 mark)

h) // is used to add comments to your Python code (1 mark)

i) Functions always return a value (1 mark)

j) Coding is the first step in the Python development cycle (1 mark)

SECTION B **[19 MARKS]**

1. Create a variable called message, assign a message to it, and then print that message. (3 marks)
2. Create another variable to represent your favorite number. Then, using that variable, create a message that reveals your favorite number. Print that message. (4 marks)
3. Write a Python program that takes three numbers as input from the user and performs arithmetic addition operations on them. Print the results. (6 marks)
4. Write a Python program that request the user to enter a phrase called "June Examination". Use slicing to extract the last half of the phrase and display it. (6 marks)

SECTION C **[37 MARKS]**

1. Write an if statement that checks if the entered password is "python123" and prints "Access granted" if it is correct. (5 marks)

2. Use an if-elif-if statement to write a program that asks the user to enter a day (Monday–Sunday) and: (10 marks)
   - Prints "Weekday" if the day is Monday to Friday
   - Prints "Weekend" if the day is Saturday or Sunday
   - Prints "Invalid day" otherwise

3. Use a nested-if statement to write a program that asks for two numbers. If the first number is greater than the second, then check: (10 marks)
    - If the difference is greater than 10, print "Difference is large"
    - Otherwise, print "Difference is small"
    - If the first number is not greater, print "First number is not greater"
4. Write a Python program that uses a for loop to print numbers from 1 to 5. (6 marks)
5. Write a Python program that uses a while loop to print numbers from 1 to 10. (6 marks)

SECTION D **[34 MARKS]**

1. Given the following list of fruits: apple, lemon, guava, oranges and pear. Provide a Python code that:
    a. creates a list called fruits with the fruits mentioned above. (2 marks)
    b. prints the last two elements in the list. (3 marks)
    c. removes an apple from the list (2 marks)
    d. prints the total number of items in the list (3 marks)
2. Write a Python program that creates a dictionary containing a student's ID, course, and year level, then prints the dictionary. Use values of your choice. (6 marks)
    a. Use a loop to access the values of the dictionary created (5 marks)
3. Write a Python function named *greet* that prints the message "Hello, World!" when called. (5 marks)
    a. Provide the code for calling a function (1 mark)
4. Write a function called display_name that takes a name as a parameter and prints "Welcome" followed by the name. (6 marks)
    a. Provide the code for calling the function defined (1 mark)

----------End----------