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FIRST SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2025

(CUFYUGP)

CSC1MN102 - PYTHON PROGRAMMING

2024 Admission onwards

Maximum Time: 2 Hours | **Maximum Marks: 70**

Section A

All Question can be answered. Each Question carries 3 marks (Ceiling: 24 Marks)

1	Define what a Python IDE is and list two features it typically offers.
2	How do you perform type conversion from integer to string in Python?
3	Write an example of a nested if statement in Python.
4	What are the standard data types available in Python?
5	Discuss the use of the break statement within a loop.
6	Write an expression that uses both arithmetic and logical operators.
7	Define what a list is in Python and how it differs from a tuple.
8	Discuss with examples the use of import function in Python.
9	Write a Python statement to update an element in a dictionary.
10	Describe how boolean expressions are evaluated in Python.

Section B

All Question can be answered. Each Question carries 6 marks (Ceiling: 36 Marks)

11	Explain the different methods to run Python code and their respective use cases.
12	How does the if...else statement execute based on different conditions? Provide a code example.
13	Write a while loop that includes a break statement and explain its behavior.
14	Describe string manipulation techniques in Python, such as slicing and concatenation.
15	What are the built-in functions available in the random library? Explain two with examples.
16	Discuss how to create, access, and modify key-value pairs in a dictionary.
17	Explain the concept of operator associativity with an example in Python.
18	Discuss the importance of using comments and indentation in Python programming.

Section C

Answer any ONE. Each Question carries 10 marks (1x10=10 Marks)

19	Evaluate the different control structures in Python and their impact on program flow.
20	Design a Python function that takes two lists and returns a dictionary mapping element from the first list to the second. Explain how the function works.