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EXAMINATION MARCH 2025
BACHELOR OF COMPUTER APPLICATIONS (NCP-NEP) / BACHELOR OF SCIENCE (DATA SCIENCE AND ANALYTICS) (SECOND SEMESTER)

MAJOR-1-204 PROGRAMMING SKILLS (TH)

[**Time: As Per Schedule**]   [**Max. Marks: 25**]

Q.1   **Answer any 5 multiple choice question**   **05**

1. In C, if 3x3 2D integer array is stored as row major with base address 1000 and each element occupy 2 bytes of memory. What will be the address of an element [1][2]?

   (a) 1010   (b) 1000

   (c) 1005   (d) 1008

2. Consider the following declaration statement.

<div align="center">

int addition (int, float);

</div>

   Which of the following is the correct category of function?

   (a) Function with Argument without return value

   (b) Function without Argument with return value

(c) Function with Argument with return value

(d) Function without Argument without return value

3. In python, which of the following is not valid data type?

   (a) str   (b) int

   (c) complex   (d) character

4. What is the output of the following statement?

   print (9//2)

   (a) 4   (b) 4.5

   (c) 4.0   (d) 5

5. Which statement is used to skip part of loop?

   (a) break   (b) continue

   (c) go   (d) for

6. Suppose list1 is [3, 5, 25, 1, 3], what is min(list1)?

   (a) 3   (b) 5

   (c) 25   (d) 1

7. In Python, a set is enclosed by _____ where each element is separated by a comma.

   (a) [ ]   (b) ( )

   (c) { }   (d) ' '

Q.2   **A.** Explain basic concept of structure with example.   **04**

OR

How to pass argument in user defined function? Discuss call by reference in detail.

B. Discuss data types of python. **04**

OR

How to create user defined function in python. Explain it with example.

Q.3   **A.** Explain any 4 string methods of python with example. **04**

OR

Explain identity and member operator of python in detail.

B. Discuss any two iterative statements of python. **04**

OR

What is List? How to create list in python? How to access list members? Explain each with example.

Q.4   **A.** What is Dictionary? Explain any 4 methods of Dictionary with example. **04**

OR

Write a note on NumPy with its methods. Explain how to create array using it.

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