

IMSc IT DM & VI (NEP) Sem.-1 Examination

MDC-DMVI-114T

Fundamentals of Programming Techniques

Time : 1-00 Hour]

February-2025

[Max. Marks : 25

Instructions:

- Do not write anything on the question paper.
- Attempt all questions.
- Make suitable assumptions wherever necessary.
- Figures to the right indicate full marks.

Q. 1 What is Type Casting? Explain Implicit type casting with example. 10

OR

Q. 1 Explain Python Applications in detail with Diagram. 10

Q. 2 What is data type? What is List data type? Explain any 5 methods from the list with example. 10

OR

Q. 2 Explain simple if and if-else decision making statement with example. 10

Q.3 **MCQs (multiple-choice questions)** 05

1) What does the range(5) return?

- a) [1, 2, 3, 4, 5]
- b) [0, 1, 2, 3, 4]
- c) (0, 1, 2, 3, 4)
- d) None

2) What is the output of print(5 > 3 and 2 < 1)?

- a) True
- b) False
- c) None
- d) Error

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3) What will print([1, 2, 3] + [4, 5]) output?

- a) [1, 2, 3, 4, 5]
- b) [1, 2, 3][4, 5]
- c) Error
- d) None

4) What is the output of bool(0)?

- a) True
- b) False
- c) 0
- d) Error

5) Which of the following is a mutable data type?

- a) String
- b) List
- c) Tuple
- d) Int