

A-1311

Total Pages : 3

Roll No.

MCS-E5/MCA-E5

(MCA)

Python Programming

Examination February, 2026

Time : 2:00 Hrs.

Max. Marks : 70

Note :- This paper is of Seventy (70) marks divided into Two (02) Sections 'A' and 'B'. Attempt the questions contained in these Sections according to the detailed instructions given therein. *Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.*

Section-A

(Long Answer Type Questions) (2×19=38)

Note :- Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any *two* (02) questions only.

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(1)

P.T.O.

1. What is meant by selection, iteration and sequence control structures ? Define algorithm. Explain in detail about the building blocks of algorithm. Differentiate Algorithm and flowchart
2. What is pseudo code ? Explain its guidelines and benefits. Explain the design structures in pseudo code. Explain the steps involved in program development cycle.
3. Explain the data types in python Illustrate interpreter and interactive mode in python with example. Explain the function arguments in python.
4. Explain call by value and call by reference in python briefly explain about function prototypes. What is String ? How do you create a string in Python ?
5. What is Dictionary ? Explain Python dictionaries in detail discussing its operations and methods.

Section–B

(Short Answer Type Questions) (4×8=32)

Note :- Section ‘B’ contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

1. Write the algorithm, pseudocode and draw the flowchart for the following :
 - (a) Find minimum in a list.
 - (b) Insert a card in a list of sorted cards.
2. Write a short note on types of operators in python with appropriate example.
3. What type of conditional structures are present in a programming language ? How many of them are supported in Python ? Explain each with example.
4. How to perform a user input in Python ? Explain with example.
5. Write a program to check whether entered string is palindrome or not.
6. Explain in detail about Python Files, its types, functions and operations that can be performed on files with examples.
7. What are the basic list operations that can be performed in Python ? Explain each operation with its syntax and example.
8. Explain about the different types of Exceptions in Python.
