

A-846

Total Pages : 3

Roll No.

MCS-E5/MCA-E5

Python Programming

(MCA)

4th Semester Examination, 2024 (June)

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.

1. Explain the Identifiers, Keywords, Statements, Expressions, and Variables in Python programming language with examples.
2. What type of conditional structures is present in programming language ? How many of them are supported in Python ? Explain with example.
3. Write the algorithm, pseudocode and draw the flowchart for the finding minimum in a list.
4. Explain the need for continue and break statements. Write a program to check whether a number is prime or not. Prompt the user for input.
5. Explain the term Exception in Python. List some few common Exception types and explain when they occur.

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. Explain the purpose of Joop structure in a programming language. Describe the syntax and semantics of any two loop structures provided by Python.

2. Explain in detail about Python Files, its types, functions and operations that can be performed on files with example.
3. Describe the need for catching exceptions using try and except statements with examples.
4. What is Dictionary ? Explain Python dictionaries in detail discussing its operations and methods.
5. Write Pythonic code to multiply two matrices using nested loops and also perform transpose of the resultant matrix.
6. What is the difference between intermediate mode and script mode ?
7. What is the difference between tuples and lists in Python ?
8. Describe about Handling Exceptions in detail with examples.
