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MCS-E5

Python Programming

Master of Computer Application (MCA)

4th Semester, Examination 2022(Dec.)

Time: 2 Hours 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.

Section – A

(Long Answer – type questions)

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.

[2 x 19 = 38]

P.T.O.

Q.1. What are Python's dictionaries? Explain how to create a dictionary in python? Explain with example.

Q.2. What are tuples in Python? What is the difference between tuples and lists in Python? What are the built-in functions that are used in Tuple?

Q.3. Discuss inheritance in Python programming language. Write Python Program to Demonstrate Multiple Inheritance.

Q.4. Describe the relationship between a class and object? Write a program which shows how to define a class, how to access member functions and how to create and access objects in python.

Q.5. Explain the use of following methods with their syntax.
    a.   index ()   b.   append ()
    c.   insert ()   d.   copy ()
    e.   extend ()   f.   remove
    g.   pop ()

Section – B

(Short-answer-type questions)

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.

[4 x 8 = 32]

Q.1. What is Python? Also, discuss why Python is called as dynamic and strongly typed language.

Q.2. What is a variable? What are the rules for writing an identifier?

Q.3. What is python pass statement? Explain with example.

Q.4. What is the differences between modify and copy operations performed in dictionary?

Q.5. What is meant by module in python? List some built in modules in python.

P.T.O.

Q.6.   Write short notes on types of operator in python with appropriate example?

Q.7.   Mention the features of identity operators. Also give the characteristics of membership operator.

Q.8.   Write a program in python to check given number is palindrome or not.

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