M.C.A. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2022.

First Semester

MC 4103 — PYTHON PROGRAMMING

(Regulations 2021)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Write the syntax and usage of for loop.

2. Differentiate break and continue statement.

3. What is the output of print tuple + tinytuple if tuple = ('abcd', 786, 2.23, 'john', 70.2) and tinytuple = (123, 'john')?

4. What is the use of str. upper ( ) and str. lower ( ) functions in string?

5. How to open a new file in Python?

6. Name the various file modes used in python.

7. State the use of Flask.

8. What is NumPy package?

9. What is the use of ---init--- function?

10. How to create child class in python?

PART B — (5 × 13 = 65 marks)

11. (a) What types of conditional statement are present in a python? Explain each with example.

Or

(b) Discuss in detail about various types of operators in python with appropriate example.

12. (a) What are the basic list operations that can be performed in Python? Explain any six operation with its syntax and example.

Or

(b) What is Dictionary? Explain Python dictionaries in detail discussing its operations and methods.

13. (a) Describe about Handling Exceptions in detail with examples.

Or

(b) Explain in detail about Python Files, its types, functions and operations that can be performed on files with examples.

14. (a) Briefly explain about Python Packages with example.

Or

(b) Explain in detail about python modules with program example.

15. (a) How to achieve Polymorphism with Function and Objects? Explain.

Or

(b) Explain in details python inheritance with example.

PART C — (1 × 15 = 15 marks)

16. (a) Write the following python program.
   (i) To find factorial of a given numbers. (8)
   (ii) To find whether a given number is Armstrong number or not. (7)

Or

(b) (i) Write a python program to find the given number is odd or even. (8)

   (ii) Write a Python program to Swapping of two numbers with and without using temporary variable. (7)

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