

[Time:2.30 Hrs]

[Marks:75]

Please check whether you have got the right question paper.

- N.B:
1. All questions are compulsory.
 2. Figures to the right indicate full marks.
 3. Students answering in the regional language should refer in case of doubt to the main text of the paper in English.

- Q.1 Attempt **any three** of the following: 15
- a. Explain the features of Python Programming.
 - b. What is variable? What are the rules and conversion for declaring a variable?
 - c. Explain if-else statement with an example.
 - d. Write a program to accept a number from the user and check whether the number is even or odd
 - e. Write a program to calculate the area of a circle.
 - f. Explain arithmetic operators with example
- Q.2 Attempt **any three** of the following: 15
- a. Explain any five math function with the help of an example
 - b. Explain IN Operator with an example
 - c. Explain any basic operations performed on string.
 - d. Explain any 5 string function with example
 - e. Explain the use of IN operator with help of a program.
 - f. Write a short note on string are immutable.
- Q.3 Attempt **any three** of the following: 15
- a. Define Tuple and show it is immutable with example
 - b. Explain dictionary methods in Python.
 - c. Explain exception handling block in python with the help of an example
 - d. State the difference between lists and dictionary
 - e. Write a Python program to write a list to a file
 - f. Write a program on tuples.
- Q.4 Attempt **any three** of the following: 15
- a. Explain search function with example.
 - b. Explain various types of regular expressions.
 - c. Explain math functions.
 - d. Explain multiple and multilevel inheritance with example
 - e. Explain the regular expression and pattern matching in details
 - f. Explain the process of creating multi-threaded priority queue
- Q.5 Attempt **any three** of the following: 15
- a. Explain GUI in python.
 - b. Write a code to drop the employee table
 - c. List down the various options of button widget
 - d. Write a program on given below
 - e. Write a code to Establish a connection with MySQL Server.
 - f. Write a short note on spin box.