

Programming with Python I

[Time:2.30 Hrs]

[Marks:75]

Please check whether you have got the right question paper.

- N.B:
1. All question 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.

Q1. Answer the Following: (Any 4)**(20 marks)**

- a) What are the features of Python programming language?
- b) Explain expression evaluation in Python.
- c) Explain various operators used in Python.
- d) Write a Python program using Math Expressions.
- e) Explain the use of Built-in type function with an example.
- f) Explain operator precedence with an example.

Q2. Answer the Following: (Any 4)**(20 marks)**

- a) What is a Dictionary? How to create and access values in a dictionary?
- b) With the help of an example, explain Break and Continue statements.
- c) Explain while loop with an example.
- d) Write a program to calculate factorial of a number using if-elif-else statement.
- e) Explain Global and local variables with an example.
- f) Define Functions and list advantages of using them.

Q3. Answer the Following: (Any 4)**(20 marks)**

- a) Explain the concept of Anonymous functions?
- b) Explain list comprehension with an Example.
- c) State and explain any 5 string functions.
- d) State and explain any 5 tuple functions.
- e) State and explain any 5 list functions.
- f) Explain with example the use of Anonymous function with filter().

Q4. Answer the Following: (Any 3)**(15 marks)**

- a) What is difference between mutable and immutable?
- b) Write the difference between Dynamic Typing and Static Typing.
- c) What are the built-in Python functions?
- d) Explain recursive function with an example.
- e) State and explain any 5 dictionary functions.
- f) Explain with example the use of Anonymous function with map().
