

Duration :- 2.30 hrs

16

Q. 1

Attempt any four of the following

- Write short note on flow chart.
- List the data types in Python and explain dictionary data type.
- Write rules for writing variable name.
- The given list is – List = ["Hello World", 25, 36.6, True, "Happy"]
 - Print the index number of 36.6
 - Print the List
 - Delete the 3rd element of the list.
 - Copy the List to List1
- Explain 5 arithmetic operators in Python.
- What are the input and output statements in Python. Explain with example.
- What is Tuple? How to create it?
- Explain membership operator.

Q. 2

Attempt any four of the following

- What are the advantages of using function.
- Write a program in Python to find a greater of 2 numbers.
- What do you mean by scope and lifetime of a variable.
- Explain Break statement.
- Explain if ... elif ... else statement with syntax.
- Write a program in Python to print * 10 times.
- Explain for statement.
- Write a general format of nesting of while loop.

Q. 3

Attempt any four of the following

- Write note on Anonymous functions.
- What is a class.
- What is inheritance and list the various inheritance.
- What is list comprehension?
- List any 5 methods of list and explain any 2.
- Explain Hybrid inheritance.
- List any 5 methods of string and explain any 2.
- What are constructors? Why do we use constructors?

Q. 4

Attempt any Three of the following

- Write a program to calculate simple interest. Take principal amount, rate of interest and number of years from users. (Hint : Simple interest = Principle amount * Rate of interest * number of years.)
- Write a general format or syntax of user defined function.
- Explain single inheritance.
- What is the use of the following arithmetic operators
 - *
 - ||
 - l
 - %
 - **
6. Write the output of the following


```
def sum(X1, X2) :
    return (X1 + X2)
X1 = 50
X2 = 25
Print("Sum = ", sum(X1, X2))
```
- Explain map() function with example.

~*~*~*~*~*~