

Sample Question Paper:

Scheme – I

Programme Name: Computer/Information Technology Engineering

Programme code: CO/IF

Semester: VI Sem

Course Title: Programming with Python

Marks : 70

22616

Time: 3 Hrs.

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Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

Q1. Attempt any FIVE of the following.

(10 Marks)

- a) Name different modes of Python
- b) List identity operators
- c) Describe Dictionary
- d) State use of namespace in Python
- e) List different Object Oriented features supported by Python.
- f) Write steps involved in creation of a user defined exception?
- g) Describe Python Interpreter

Q.2) Attempt any THREE of the following.

(12 Marks)

- a) Explain two Membership and two logical operators in python with appropriate examples.
- b) Describe any four methods of lists in Python
- c) Comparing between local and global variable
- d) Write a python program to print Fibonacci series up to n terms

Q.3) Attempt any THREE of the following.

(12 Marks)

- a) Write a program to input any two tuples and interchange the tuple variable.
- b) Explain different loops available in python with suitable examples.
- c) Describe various modes of file object? Explain any two in detail
- d) Illustrate the use of method overriding? Explain with example

Q.4) Attempt any THREE of the following.

(12 Marks)

- a) Use of any four methods of tuple in python?
- b) Write a python program to read contents of first.txt file and write same content in second.txt file
- c) Show how try...except blocks is used for exception handling in Python with example
- d) Write the output for the following if the variable fruit='banana':

```
>>>fruit[:3]
>>>fruit[3:]
>>>fruit[3:3]
>>>fruit[:]
```

Q.5) Attempt any TWO of the following.

(12 Marks)

- a) Determine various data types available in Python with example
- b) Write a python program to calculate factorial of given number using function
- c) Show the output for the following:

```
1. >>> a=[1,2,3]
   >>>b=[4,5,6]
   >>> c=a+b
2. >>>[1,2,3]*3
3. >>>t=['a','b','c','d','e','f']
   >>>t[1:3]=['x','y']
   >>>print t
```

Q.6) Attempt any TWO of the following.

(12 Marks)

- a) Describe Set in python with suitable examples.
- b) Illustrate class inheritance in Python with an example
- c) Design a class Employee with data members: name, department and salary. Create suitable methods for reading and printing employee information