



B.Tech IV Year II Semester (R13) Regular Examinations April 2017

PYTHON PROGRAMMING

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

1 Answer the following: (10 X 02 = 20 Marks)

- What are the conventions followed in variable declaration and definitions in python?
- What are the advantages of interactive mode of python programming?
- List out the basic data types of python programming.
- What are the roles of pass keyword?
- Give examples for any two usage of dictionaries data structure.
- What are the types of sequences in python?
- How to represent variable length arguments in python.
- Give an example for fruitful function.
- What is data hiding? Give an example in python.
- What are the standard libraries for GUI programming in python?

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

- Enumerate any twenty keywords in python.
 - Give a Brief description about history of python and the need of python.

OR

- Explain the various input and output methods in python.
 - What are the indentation rules that followed in python?

UNIT – II

- Discuss about various operators in python programming. Give code segments of each operator usage.

OR

- List out the order of expression evaluation from highest to lowest.
 - Write a python program for multiplication of two 3 x 3 matrix.

UNIT – III

- Give any three examples of list comprehensions.
 - Explain the various methods of tuples in python.

OR

- Give any three examples of slicing.
 - Explain the various methods of sets in python.

UNIT – IV

- Write a function called is_prime which takes a single integer argument and returns True if the integer is a prime number and False otherwise. A prime number is a number with only two distinct divisors, 1 and itself. Note: 1 is therefore not a prime number.
 - Explain how to represent local and global variables in python.

OR

- Write steps to install packages via pip.
 - Write a python program to describe error and exception handling.

UNIT – V

- Explain how to override methods in python.
 - Describe about a class and constructor methods with an example.

OR

- Write a short python script to test any three string methods.
 - Explain the features of turtle graphics in python.

