

UNIT – IV

8. Explain the thread control block for python programming. Write a program to solve producer consumer problem in python programming. 15
9. Explain the concept of operator overloading, polymorphism in python. Write a python program to solve problem of exception handling using try catch block. 15
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Roll No.

3129

**B. Tech. 3rd Semester (CSE)
Examination – March, 2021**

PYTHON PROGRAMMING (WITH NEW SYLLABUS)

Paper : PCC-CSE-207-G(A)

Time : Three hours]

[Maximum Marks : 75

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *five* questions in all, selecting *one* question from each Unit. Question No. 1 is *compulsory*. All questions carry equal marks.

1. Explain the following parts : 2.5 × 6 = 15
- (a) How can you declare local, global variable in Python ?
 - (b) What is object in python ? Write the syntax for creating the dictionary in python ?
 - (c) How to print in same line in python explain with suitable example ?

- (d) Write the name of methods used to convert list to string in python with suitable example.
- (e) Discuss syntax of FOR loop in python with example.
- (f) What is strong number in python ? Consider the number 145 and check whether it is strong or not.

UNIT – I

- 2. (a) Explain the concept of scope and lifetime of variables in Python programming language with an example. 7
- (b) Write a Python program to check if a Number is Positive, Negative or Zero. 8
- 3. (a) Describe Arithmetic Operators, Assignment Operators, Comparison Operators, Logical Operators and Bitwise Operators in detail with examples. 8
- (b) Write a Python program to check if a 3 digit number is Armstrong number or not. 7

UNIT – II

- 4. (a) Write Python program to sort numbers in a list in ascending order using Bubble sort by passing the list as an argument to the function call. 8

- (b) Write a Python Program to Display Fibonacci sequence Using Recursion. 7

- 5. (a) Write Python program to perform a linear search for a given Key number in the list and report Success or Failure. 8

- (b) Discuss the following dictionary methods with an example :

- (i) get() (ii) keys() (iii) pop() (iv) update()
- (v) values() (vi) items() 7

UNIT – III

- 6. Explain the python libraries to create graphical user interface. Write the program for text widget to insert multiline fields using any graphical user interface framework. 15

- 7. Write notes on ; 15

- (a) Instance variables
- (b) Turtle operations
- (c) Image manipulation operations