

2122
B.E. (Information Technology)
Fifth Semester
PEIT-501(c) : Python Programming

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

- I. Attempt the following:-
- Discuss string slicing with examples.
 - Differentiate between write () and writelines () functions.
 - Discuss the importance of encapsulation?
 - What is the difference between list and tuple?
 - What is exception handling? (5x2)

UNIT - I

- II. a) Write a python program to check whether entered string is palindrome or not.
b) Demonstrate the use of break and continue keywords in looping structures using examples. (2x5)
- III. What is Dictionary? Explain Python dictionaries in detail discussing its operations and methods. (10)
- IV. a) Write a Python program to find the frequency of each character in a file.
b) How List is created in python? Discuss different method that you can use on List. (2x5)

UNIT - II

- V. a) Explain the mechanism of Overloading Operators in Python.
b) Discuss inheritance in Python programming language. Discuss different types of inheritance. (4,6)
- VI. a) What are regular expressions in Python? What is Greedy Matching in Regular Expressions?
b) Discuss the Operations that You Can Perform with Regular Expressions. (2x5)
- VII. a) Write a short note on database connectivity using python.
b) Write a code to create a table in SQL with python and then insert the value in the table. (2x5)