

Exam.Code:0923
Sub. Code: 33555

2125
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. I which is compulsory and selecting two questions from each Section.

x-x-x

- I
- a What is an object in Python? 2
 - b Explain count() and index() methods of list with suitable examples 2
 - c What is lambda function? 2
 - d What is importance of encapsulation? 2
 - e How do we create a connection object? 2

Section - A

- II
- a Write a Python program to check whether the given number is palindrome or not. 5
 - b List the different types of conditional control statements and explain them with suitable example. 5
- III
- a What are advantages of functions. Write a Python program to implement recursion for factorial of a number using user defined function. 5
 - b How Tuple is created in python? Discuss different method that you can use on Tuple. 5
- IV
- a Discuss the following methods associated with the file object 6
 - a) read() b) readline() c) write()
 - b Discuss string slicing. Illustrate how it is done in python with an example 4

P.T.O.

Section - B

- V a How do define constructor and destructor in Python? 4
- b Differentiate between multiple and multilevel inheritance with suitable example. 6
- VI a What is exception? Discuss exception handling, try-finally-else and try- finally? 5
- b What are regular expressions? How regular expression used for extracting data. 5
- VII a Explain the various database operations one can perform using MySQL-Python connectivity. 7
- b Write a short note on pattern searching using regex. 3