2021
B.E. (Information Technology)
Fifth Semester
IT-505C: 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.   Answer the following:-

a) What is the importance of 'self in python?

b) Differentiate between write() and write lines() functions.

c) Differentiate between yield and return.

d) What is importance of encapsulation?

e) How can multiple rows be added in a table?   (5x2)

UNIT – I

II.   a) Write a program to enter a number by a user and find whether it is a prime number.

b) Demonstrate the use of break and continue keywords in looping structures using examples.   (2x5)

III.   a) What is meant by Tuple and how it is created?

b) Write a Python program to count the occurrence of each element within a List.
                                                                (4,6)

IV.   a) Write a Python program to find the words starting with a vowel from a given file.

b) What is the importance of File Handling? Explain the mechanism of file handling in Python.   (6,4)

UNIT – II

V.   a) Explain the use of 'super'. How it can be used to call methods of base class?

b) Differentiate between multiple and multilevel inheritance with suitable example.
                                                                (2x5)

VI.   a) What are exceptions? How the exception handling is done in Python?

b) What are regular expressions? How regular expression used for extracting data.
                                                                (2x5)

P.T.O.

VII. Write a short note on:-

    a) Operator overloading.

    b) Database connectivity using python.   (2x5)

x-x-x