**Karunya University**

**(Karunya Institute of Technology and Sciences)**

(Declared as Deemed to be University under Sec.3 of the UGC Act, 1956)

**Supplementary Examinations – June 2016**

**Subject Title: PERL and PYTHON Programming Time : 3 hours**

**Subject Code: 14BI2006 Maximum Marks: 100**

**Answer ALL questions (5 x 20 = 100 Marks)**

1. With proper example explain the working of

a. if

b. ifelse

c. ifelseif

**(OR)**

2. a. What are subroutines?

b. How to invoke a subroutine by passing an argument to it?

c. Design the subroutine so as to obtain the return value to calling function.

3. a. What are file handlers used for?

b. What are different file handling options provided in PERL?

**(OR)**

4. a. What is hash?

b. Design a hash table and show how to accesses different elements of hash table.

5. a. What are regular expressions?

b. Discuss about different character classes in regular expression.

**(OR)**

6. a. Explain lists, tuples and dictionaries in python with example.

b. Write the list manipulation functions in python.

7. a. Briefly explain various string functions and special features of strings.

b. Write a program to demonstrate string manipulation.

**(OR)**

8. Write short notes on

a. Definition of functions.

b. How to create functions?

c. Calling functions and passing functions

d. Passing arguments

9. **Compulsory:**

a. What are features of Python which make it a unique language?

b. Explain various control and loop statements in Python with example.