AB-3204
Third Year B. Sc. (Sem. V) Examination
March/April – 2015
Python Programming and Computer Interfacing
(Generic Elective for Electronics)

Time : 2 Hours] [Total Marks : 50

Instructions:
(1) Figures on the right indicate full marks.
(2) All symbols and abbreviations have their usual meaning.
(3) Non-programmable calculators are allowed.
(4) Assume data if necessary.

1 Write Very Short Answers 10
(1) What is UBUNTU LINUX?
(2) What is the difference between a compiler and an interpreter?
(3) Give an example of changing the precedence of operation using parenthesis
(4) How the individual element of the string is accessed?
(5) Explain the function used to read the digital data from the PHOENIX.

2 (a) What is the meaning of an operating system? Explain 6
the Linux operating system and its features.
(b) Write a python program to compute the sum of first 4
10 integers.

OR

2 (a) What are functions? Discuss how to write a function in 6
python giving suitable example.
(b) What are libraries? How are they used in python 4
explain giving examples.
3 (a) Give names of a few popular higher level languages. What are the advantages of python programming language?
(b) Discuss the data types and the arithmetic operators of python. Discuss the precedence of operators in python using suitable examples.

OR

3 (a) Discuss how graphs are plotted using python.
(b) Write a programme which is used to perform the experiment of RC charging.

4 (a) What is List, Tuple and Dictionary in python? Discuss any one in detail.
(b) What is slicing of strings in python? Explain giving examples.

OR

4 (a) What is phoenix? Describe phoenix library. How is it invoked in a python program?
(b) Describe the function for analog input in phoenix.

5 Write Short Notes (ANY TWO)
(1) Phoenix digital input / output functions
(2) Python WHILE statement
(3) UBUNTU terminal
(4) Python logical operators.