



**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)

नीचे दृशावेव निशानीवाणी विगतो उत्तरवडी पर अवश्य लपनी. Fillup strictly the details of signs on your answer book.		Seat No. :	
Name of the Examination :		<input type="text"/>	
Third Year B. Sc. (Sem. V)		<input type="text"/>	
Name of the Subject :		<input type="text"/>	
PYTHON PROGRAMMING AND COMPUTER INTERFACING		<input type="text"/>	
Subject Code No. :		Section No. (1, 2,.....) :	
3 2 0 4		Nil	
		Student's Signature	

- (2) Figures on the right indicate full marks.
- (3) All symbols and abbreviations have their usual meaning.
- (4) Non-programmable calculators are allowed.
- (5) 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 the Linux operating system and its features. 6

(b) Write a python program to compute the sum of first 10 integers. 4

**OR**

2 (a) What are functions? Discuss how to write a function in python giving suitable example. 6

(b) What are libraries? How are they used in python explain giving examples. 4

- 3 (a) Give names of a few popular higher level languages. 6  
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. 4
- OR**
- 3 (a) Discuss how graphs are plotted using python. 6  
(b) Write a programme which is used to perform the experiment of RC charging. 4
- 4 (a) What is List, Tuple and Dictionary in python? Discuss any one in detail. 6  
(b) What is slicing of strings in python? Explain giving examples. 4
- OR**
- 4 (a) What is phoenix? Describe phoenix library. How is it invoked in a python program? 6  
(b) Describe the function for analog input in phoenix. 4
- 5 Write Short Notes (ANY TWO) 10
- (1) Phoenix digital input / output functions
  - (2) Python WHILE statement
  - (3) UBUNTU terminal
  - (4) Python logical operators.
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