CODE No.: 16BT30503 SVEC-16

SREE VIDYANIKETHAN ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to JNTUA, Ananthapuramu)

II B.Tech I Semester (SVEC-16) Regular/Supplementary Examinations November - 2018

PYTHON PROGRAMMING

[Computer Science and Engineering]

Time: 3 hours **Max. Marks: 70**

Answer One Question from each Unit
All questions carry equal marks

UNIT-I

1	a)	What Are Syntax and Semantics? Explain the difference between Syntax Errors ***vs.*** Semantic Errors.	CO1	8 Marks
	b)	Write in detail about Operator precedence and Associativity with an example.	CO2	6 Marks
		(OR)		
2	a)	Explain with an example about Coercion ***vs.*** Type Conversion.	CO1	5 Marks
	b)	Evaluate the following expressions according to operator precedence. i) **10 - (5 * 4)**. ii) **40 % 6**. iii) **- (10/3) + 2**.	CO2	9 Marks

UNIT-II

3	a)	Explain the difference between sequential, selection, and iterative control with an example.	CO1	7 Marks
	b)	Write a python script to find biggest of three numbers using nested if.	CO2	7 Marks
		(OR)		
4	a)	Explain how list representation relates to list assignment in Python.	CO1	5 Marks
	b)	Write a Python script to check whether a given number is palindrome or not.	CO2	9 Marks

UNIT-III

5	a)	Explain the concept of parameter passing with an example.	CO1	6 Marks
	b)	Write a Python function named helloWorld that displays "Hello World, my name is name", for any given name passed to the routine.	CO4	8 Marks
		(OR)		
6	a)	Explain the appropriate use of Iteration ***vs.*** Recursion.	CO1	5 Marks
	b)	Write a program segment that reads a text file named original text and displays how many times the letter 'e' occurs.	CO3	9 Marks

UNIT-IV

7	a)	Give a set of instructions for controlling the turtle to create three concentric circles, each of different color and line width.	CO5	9 Marks
	b)	What is Inheritance? Explain the concept of class hierarchies with an example.	CO1	5 Marks
		(OR)		
8		Develop a simple program for bouncing ball using multiple turtles.	CO4	14 Marks

UNIT-V

9		Write a Python script creates a simple GUI tool that will convert a number of feet to the equivalent number of meters using Labels, TextFields and Buttons in TKinter (1 feet = 0.3048 Meters).	CO5	14 Marks
		(OR)		
10		How to reuse a GUI component with class and explain about Attaching and Extending class components.	CO2	14 Marks