Model Question Paper-1

USN

Fifth Semester B.E. Degree Examination
Nano-Python Programming Language for Automation

TIME: 03 Hours   **Max. Marks: 100**

Note: 01. Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.

		Module – 1	
Q.1	**(a)**	Explain parsing command-line arguments. With valid syntax explain getopt. getopt method details in brief.	**8**
	(b)	Explain the concepts of multiline statements, the quotation in python & comments in python in brief.	**8**
	(c)	Mention & explain the python features in brief.	**4**
		OR	
Q.2	**(a)**	Explain the concepts of multiple statements on a single line, multiple statement group as suites & command line arguments in brief.	**8**
	(b)	Mention the different modes of programming. Explain interactive mode programming in detail with the program.	**8**
	(c)	Write short notes on python identifiers and keywords.	**4**
		Module – 2	
Q.3	**(a)**	Assume the variables and write a program related to python assignment operators including all the operations.	**10**
	(b)	Assume the variables and write a program related to python comparison operators including all the operations.	**10**
		OR	
Q.4	**(a)**	Assume the variables and write a program related to python arithmetic operators including all the operations.	**10**
	(b)	Assume the variables and write a program related to python bitwise operators including all the operations.	**10**
		Module – 3	
Q.5	**(a)**	With syntax & program explain the concept of elif statement in decision making.	**8**

	(b)	With flow diagram & program explain the concept of if statement in decision making.	**6**
	(c)	With flow diagram & program explain the concept of the nested loop statement.	**6**
		OR	
Q.6	**(a)**	With flow diagram & program explain the concept of if else statement in decision making.	**8**
	(b)	With flow diagram & program explain the concept of the nested loop statement.	**6**
	(c)	With flow diagram & program explain the concept of while loop statement.	**6**
		Module – 4	

Q.7	**(a)**	Write a program for the given syntax and tabulate the results
		   1. index(str, beg=0, end=len(string))
		   2. str.isa1num()
			8

	(b)	Write a program for the given syntax and tabulate the results
		   1. str.isalpha()
		   2. str.isdigit()
			6

	(c)	Write a program for the given syntax and tabulate the results
		   1. isnumeric()
		   2. islower()
			6

		OR	

Q.8	**(a)**	Write a program for the given syntax and tabulate the results
		   1. expandtabs(tabsize=8)
		   2. find(str, beg=0 end=len(string))
			6

	(b)	Explain the concept, syntax, program of encode(encoding='utf-8',errors='strict') method & endswith(suffix, beg=0, end=len(string)) method related to built-in string methods	**8**
	(c)	Explain the concept, syntax, program of decode(encoding='utf-8',errors='strict') method & count(str, beg= 0,end=len(string)) method related to built-in string methods.	**6**
		Module – 5	
Q.9	**(a)**	Define python lists? With a program explain the concept of Accessing Values in Lists, updating lists and deleting list elements.	**10**
	(b)	With assumed list write a program for the given code Cmp(list1, list2), len(List), max(list) & min(list) respectively.	**10**
		OR	
Q.10	**(a)**	Explain in brief about Basic list Operations, Indexing, Slicing, and Matrixes & Built-in List Functions and Methods.	**10**
	(b)	Define python tuples? With program explain the concept of Accessing Values in tuples, updating tuples and deleting tuple elements.	**10**

Table showing the Bloom's Taxonomy Level, Course Outcome and Programme Outcome			
Question		**Bloom's Taxonomy Level attached**	**Course Outcome**	**Programme Outcome**
Q.1	(a)	L_1, L_2, L_3	1	1,5,12
	(b)	L_1, L_2, L_3	1	1,5,12
	(c)	L_1, L_2, L_3	1	1,5,12
Q.2	(a)	L_1, L_2, L_3	1	1,5,12
	(b)	L_1, L_2, L_3	1	1,5,12
	(c)	L_1, L_2, L_3	1	1,5,12
Q.3	(a)	L_1, L_2, L_3	2	1,5,12
	(b)	L_1, L_2, L_3	2	1,5,12
Q.4	(a)	L_1, L_2, L_3	2	1,5,12
	(b)	L_1, L_2, L_3	2	1,5,12
Q.5	(a)	L_1, L_2, L_3	3	1,5,12
	(b)	L_1, L_2, L_3	3	1,5,12
	(c)	L_1, L_2, L_3	3	1,5,12
Q.6	(a)	L_1, L_2, L_3	3	1,5,12
	(b)	L_1, L_2, L_3	3	1,5,12
	(c)	L_1, L_2, L_3	3	1,5,12
Q.7	(a)	L_1, L_2, L_3	4	1,5,12
	(b)	L_1, L_2, L_3	4	1,5,12
	(c)	L_1, L_2, L_3	4	1,5,12
Q.8	(a)	L_1, L_2, L_3	4	1,5,12
	(b)	L_1, L_2, L_3	4	1,5,12
	(c)	L_1, L_2, L_3	4	1,5,12
Q.9	(a)	L_1, L_2, L_3	5	1,5,12
	(b)	L_1, L_2, L_3	5	1,5,12
Q.10	(a)	L_1, L_2, L_3	5	1,5,12
	(b)	L_1, L_2, L_3	5	1,5,12

Bloom's Taxonomy Levels	**Lower order thinking skills**		
	Remembering(knowledge):L_1	Understanding Comprehension): L_2	Applying (Application): L_3
	Higher order thinking skills		
	Analyzing (Analysis): L_4	Valuating (Evaluation): L_5	Creating (Synthesis): L_6

Model Question Paper-2

USN

Fifth Semester B.E. Degree Examination
Nano-Python Programming Language for Automation

TIME: 03 Hours   **Max. Marks: 100**

Note: 01. Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.

		Module – 1	
Q.1	**(a)**	Explain parsing command-line arguments. With valid syntax explain getopt.getopt method details in brief.	**8**
	(b)	Explain the concepts of multiple statements on a single line, multiple statement group as suites & command line arguments in brief.	**8**
	(c)	Mention & explain the python features in brief.	**4**
		OR	
Q.2	**(a)**	Mention the different modes of programming. Explain interactive mode programming in detail with the program.	**8**
	(b)	Explain the concepts of multiline statements, the quotation in python & comments in python in brief.	**8**
	(c)	Write short notes on python identifiers and keywords.	**4**
		Module – 2	
Q.3	**(a)**	Mention the order of precedence of operators from highest to lowest and also write a program for operator's precedence including all the operators.	**10**
	(b)	Mention the different types of operators, descriptions and suitable examples related to python arithmetic and comparison operators.	**10**
		OR	
Q.4	**(a)**	Mention the different types of operators, descriptions and suitable examples related to python Assignment & bitwise operators.	**10**
	(b)	Mention the different types of operators, descriptions and suitable examples related to python Logical, Membership & Identity operators.	**10**
		Module – 3	
Q.5	**(a)**	Explain the concept of Single Statement Suites and pass statement related to decision making & loop control statements respectively.	**8**

	(b)	With suitable program explain the concept of using else statement with loops related to while loop.	**6**
	(c)	With suitable program explain the concept of using else statement with loops related to for loop.	**6**
		OR	
Q.6	**(a)**	With syntax & program explain the concept of elif statement in decision making.	**8**
	(b)	Explain the concept of break statement involved in loop control statements with flow diagram & program.	**6**
	(c)	Explain the concept of continue statement involved in loop control statements with flow diagram & program.	**6**
		Module – 4	
Q.7	**(a)**	Discuss the operator functions of String Special Operators & String Formatting Operator in detail.	**8**
	(b)	Explain the concept of number type conversions. Mention the function and description of mathematical functions related to python numbers.	**6**
	(c)	Mention the function, description of random number functions and trigonometric functions related to python numbers.	**6**
		OR	
Q.8	**(a)**	Explain the concept, syntax, program of capitalize() Method & center(width, fillchar) Method related to Built-in String Methods.	**6**
	(b)	Explain the concept, syntax, program of encode(encoding='utf-8',errors='strict') method & endswith(suffix, beg=0, end=len(string)) method related to built-in string methods	**8**

	(c)	Write a program for the given syntax and tabulate the results
		  1. str.isalpha()
		  2. str.isdigit()
			6

		Module – 5	
Q.9	**(a)**	Explain in brief about Built-in tuple Functions and Methods, Indexing, Slicing, and Matrixes & Basic Tuples Operations.	**10**
	(b)	With assumed list write a program for the given code Cmp(list1, list2), len(List), max(list) & min(list) respectively.	**10**
		OR	
Q.10	**(a)**	Explain in brief about Basic list Operations, Indexing, Slicing, and Matrixes & Built-in List Functions and Methods.	**10**
	(b)	Explain the concepts of No enclosing delimiters in brief and also write a program for Cmp(tuple1, tuple2) syntax respectively.	**6**
	(c)	With assumed tuple write a program for the given syntax min(tuple) & tuple(seg).	**4**

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Q.2	(a)	L_1, L_2, L_3	1	1,5,12
	(b)	L_1, L_2, L_3	1	1,5,12
	(c)	L_1, L_2, L_3	1	1,5,12
Q.3	(a)	L_1, L_2, L_3	2	1,5,12
	(b)	L_1, L_2, L_3	2	1,5,12
Q.4	(a)	L_1, L_2, L_3	2	1,5,12
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	(c)	L_1, L_2, L_3	3	1,5,12
Q.6	(a)	L_1, L_2, L_3	3	1,5,12
	(b)	L_1, L_2, L_3	3	1,5,12
	(c)	L_1, L_2, L_3	3	1,5,12
Q.7	(a)	L_1, L_2, L_3	4	1,5,12
	(b)	L_1, L_2, L_3	4	1,5,12
	(c)	L_1, L_2, L_3	4	1,5,12
Q.8	(a)	L_1, L_2, L_3	4	1,5,12
	(b)	L_1, L_2, L_3	4	1,5,12
	(c)	L_1, L_2, L_3	4	1,5,12
Q.9	(a)	L_1, L_2, L_3	5	1,5,12
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Q.10	(a)	L_1, L_2, L_3	5	1,5,12
	(b)	L_1, L_2, L_3	5	1,5,12
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