CBCS SCHEME

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18NT56

Fifth Semester B.E. Degree Examination, July/August 2021
Nano-Python Programming Language for Automation

Time: 3 hrs. Max. Marks:100

Note: ***Answer any FIVE full questions.***

1 a. Mention the different modes of programming. Explain script mode programming in detail with program. **(10 Marks)**

b. Explain the concepts of multiline statements, the quotation in python and comments in Python in brief. **(10 Marks)**

2 a. Write short notes on Python identifiers and keywords. **(06 Marks)**

b. Mention and explain the python features in brief. **(08 Marks)**

c. Explain parsing command-line arguments. With valid syntax explain getopt and getopt method. **(06 Marks)**

3 a. Mention the different types of operators, descriptions and suitable examples related to python. **(10 Marks)**

b. Assume the variables and write a program related to python identity operators including all the operations. **(10 Marks)**

4 a. Assume the variables and write a program related to python assignment operators including all the operations. **(10 Marks)**

b. Assume the variables and write a program related to Python bitwise operators including all the operations. **(10 Marks)**

5 a. Write flow diagram and program explain the concept of if statement in decision making. **(10 Marks)**

b. With flow diagram and program explain the concept of for loop statement. **(10 Marks)**

6 a. With flow diagram and program explain the concept of while loop statement. **(10 Marks)**

b. Explain the concept of single statement suites and pass statement related to decision making and loop control statements respectively. **(10 Marks)**

7 a. Discuss the operators functions of string special operators and string formatting operators in detail. **(10 Marks)**

b. Explain the concept of number type conversions. Mention the function and descriptions of mathematical functions related to python numbers. **(10 Marks)**

8 a. Write a program for the given syntax and tabulate the results.
i) isnumeric( )
ii) islower **(06 Marks)**

b. Write a program for the given syntax and tabulate the results.
i) epandtabs (tabsize = 8)
ii) find (str, beg = 0, end = len(string)) **(06 Marks)**

c. Mention the function, description of random number functions and trigonometric functions related to Python numbers. **(08 Marks)**

9 a. Define Python lists? With a program explain the concept of accessing values in lists, updating lists and deleting list elements. **(10 Marks)**

b. With assumed tuple write a program for the given syntax len(tuple) and max(tuple). **(04 Marks)**

c. State and write a program on List index(obj), List insert (index, obj) and List pop(obj = list[–1]) for each respectively. **(06 Marks)**

10 a. Define python tuples? Write program explain the concept of accessing values in tupels, updating tuples and deleting tuple elements. **(10 Marks)**

b. Explain in brief about basic list operations, indexing, slicing and matrixes and built-in list functions and methods. **(10 Marks)**

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