

CBCS SCHEME

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18NT56

Fifth Semester B.E. Degree Examination, Jan./Feb. 2021 Nano Python Programming Language for Automation

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Mention and explain the python features in brief. (10 Marks)
- b. Explain the concepts of multiple statements on a single line, multiple statements group as suites and command line arguments in brief. (10 Marks)

OR

- 2 a. Mention the different modes of programming. Explain interactive programming in detail with an example. (10 Marks)
- b. Explain parsing command line arguments. With valid syntax, explain `geopt.getopt` method in detail. (10 Marks)

Module-2

- 3 a. Assume all variables and write a program related to python arithmetic operator including all the operations. (10 Marks)
- b. Assume the variables and write a program related to python assignment operators including all operations. (10 Marks)

OR

- 4 a. Assume the variables and write a program related to python comparison operators including all the operation. (10 Marks)
- b. Assume the variables and write a program related to python bitwise operators including all the operations. (10 Marks)

Module-3

- 5 a. With a flow diagram and program explain the concept of if statement in decision making. (10 Marks)
- b. With syntax and program, explain the concept of elif statement in decision making. (10 Marks)

OR

- 6 a. Explain the concept of break statement involved in loop control statement with flow diagram and program. (10 Marks)
- b. With flow diagram and program, explain the concept of for loop statement. (10 Marks)

Module-4

- 7 a. Explain the concept of number type conversions. Mention the function and description of mathematical functions related to python numbers. (10 Marks)
- b. Discuss the operator function of string special operator and string formatting operator in detail. (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

OR

- 8 a. Write a program for the given syntax and tabulate the results:
- (i) Expandtabs (tabsize = 8) (10 Marks)
 - (ii) Find (str, beg = 0 end = len (string)) (10 Marks)
- b. Mention the functions, description of random number functions and trigonometric functions related to python numbers. (10 Marks)

Module-5

- 9 a. Define Python lists. With a program explain the concepts of accessing values in lists, updating lists and deleting list elements. (10 Marks)
- b. Explain in brief about basic list operation indexing, slicing and matrixes, built-in-list function and methods. (10 Marks)

OR

- 10 a. Define python tuples. With program, explain the concept of accessing values in tuples, Updating tuples and deleting tuple elements. (10 Marks)
- b. Explain in brief about built-in tuple function and methods indexing, slicing and matrixes and basic tuples operation. (10 Marks)
