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Fifth Semester B.E. Degree Examination, July/August 2022 Nano-Python Programming Languages 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 the different modes of programming. Explain script mode porgamming in detail with the program. (10 Marks)
 - b. Mention the different modes of programming. Explain interactive mode programming in detail with the program. (10 Marks)

OR

- 2 a. Explain the concept of multiline statements, the quotation in python and comments in python in brief. (10 Marks)
 - b. Explain parsing command-line arguments. With valid syntax, explain getopt getopt method details in brief. (10 Marks)

Module-2

- 3 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 comparison operators including all the operations. (10 Marks)

OR

- 4 a. Mention the different types of operators, descriptions and suitable examples related to python logical, membership and identity operators. (10 Marks)
 - b. 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 Marks)

Module-3

- 5 a. With flow diagram and program, explain the concept of if else statement in decision making.

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

 (10 Marks)

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- 6 a. With suitable program, explain the concept of using else statement with loops related to while loop. (10 Marks)
 - b. With suitable program, explain the concept of using else statement with loops related to for loop. (10 Marks)

Module-4

- 7 a. Discuss the operator function of string special operators and string formatting operators in detail. (10 Marks)
 - b. Explain the concept, syntax, program of encode (encoding = 'utf 8', errors = 'strict') method and ends with (suffix, beg = 0, end = len (string)) method related to built-in string methods.

 (10 Marks)

OR

- 8 a. Write a program for the given syntax and tabulate the results:
 - (i) expandtabs (tabsize = 8)
 - (ii) find (str, beg = 0 end = len (string))

(10 Marks)

- b. Write a program for the given syntax and tabulate the results:
 - (i) isnumeric()
 - (ii) islower

(10 Marks)

Module-5

- 9 a. Define python lists. With a program, explain the concepts of accessing value in lists, updating lists and deleting list elements. (10 Marks)
 - b. Explain in brief about basic list operators, indexing, slicing and matrixes and built-in. List functions and methods. (10 Marks)

OR

- 10 a. Explain in brief about built-in tuple function and methods, indexing, slicing, and matrixes and basic tuples operations. (10 Marks)
 - b. With assumed tuple, write a program for the given syntax min (tuple) and tuple (seg).

(10 Marks)

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