



## Third Semester B.E. Degree Examination, Jan./Feb. 2023 Python Programming

Time: 3 hrs.

Max. Marks: 100

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

### Module-1

- 1 a. Discuss the symbols and rules for drawing flowchart with the example. (10 Marks)  
b. Explain in detail about building blocks of algorithm. (10 Marks)

OR

- 2 a. Explain in detail about simple strategies for developing algorithm. (10 Marks)  
b. Differentiate algorithm from pseudocode and flow chart with suitable example. (10 Marks)

### Module-2

- 3 a. Discuss on the different operators used in python programming with suitable examples. (12 Marks)  
b. Discuss the need of functions definition in python programming with suitable example. Give its types. (08 Marks)

OR

- 4 a. Give the features and applications of python programming. (10 Marks)  
b. Differentiate Interpreter and Compiler. (05 Marks)  
c. Explain the types of Arguments. (05 Marks)

### Module-3

- 5 a. Explain Conditional statements in detail, with example. (10 Marks)  
b. Write a python program to find greatest of two numbers with expected output. (05 Marks)  
c. Write a python program to check the number is positive or negative with expected output. (05 Marks)

OR

- 6 a. Explain in detail about recursion, with suitable examples. (10 Marks)  
b. Write a python program to find factorial of given number with expected output. (06 Marks)  
c. Write a python program to print all even numbers, till a given number with expected output. (04 Marks)

### Module-4

- 7 a. Differentiate Fruitful function from Void function with suitable example. (07 Marks)  
b. Explain Local and Global scope with example. (06 Marks)  
c. Define Function composition. Explain with suitable example. (07 Marks)

OR

- 8 a. Write a python program to find GCD of two numbers with expected output. (07 Marks)  
b. Write a python program to find an element in list using linear search. (06 Marks)  
c. Write a python program to find the sum of array elements in a given array with expected output. (07 Marks)

### Module-5

- 9 a. Explain in detail about dictionaries and its methods with suitable example. (10 Marks)  
b. Explain Merge sort with an example. (10 Marks)

OR

- 10 a. Explain in detail about advanced list processing with suitable example. (10 Marks)  
b. Write a python program for matrix multiplication with expected output. (10 Marks)

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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.