CBCS SCHEME

USN | | | | | | | | | |

18BT36

Third Semester B.E. Degree Examination, Jan./Feb. 2021
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. Define algorithms. Describe the building blocks of an algorithm. **(12 Marks)**
b. With suitable example explain pseudo code. **(08 Marks)**

OR

2 a. Mention the simple strategies for developing algorithms. **(12 Marks)**
b. With suitable example, explain flow chart. **(08 Marks)**

Module-2

3 a. What is an interpreter? Mention its types. **(06 Marks)**
b. Differentiate interpreter and compiler. **(04 Marks)**
c. Explain the types of operators used in python programming with suitable examples. **(10 Marks)**

OR

4 a. Define function. What are the types of arguments in python? Explain with suitable example. **(10 Marks)**
b. Compare and contrast modules and functions. **(05 Marks)**
c. With suitable example explain the usage of modules. **(05 Marks)**

Module-3

5 a. Explain in detail about iterations with suitable example. **(10 Marks)**
b. What are loop control statements? Demonstrate with suitable examples. **(10 Marks)**

OR

6 a. With syntax and example, explain the following string operations:
i) upper( ) ii) lower( ) iii) find( ) iv) concatenation v) length. **(10 Marks)**
b. With suitable syntax and example differentiate string strip from string slice. **(10 Marks)**

Module-4

7 a. With suitable syntax and example explain the following list operators:
i) update( ) ii) delete( ) iii) append( ) iv) extend( ) v) length. **(10 Marks)**
b. Explain function composition with suitable example. **(10 Marks)**

OR

8 a. Write a python program with expected output to find the sum of array elements. **(08 Marks)**
b. Compare and contrast linear search and binary search with suitable example. **(12 Marks)**

Module-5

9 a. Distinguish between List and Tuple with suitable operations. **(10 Marks)**
b. Discuss in detail on dictionary operations and methods. **(10 Marks)**

OR

10 a. Explain merge sort with suitable python program. **(10 Marks)**
b. With suitable syntax and example discuss on list comprehension. **(10 Marks)**

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