**18CSI03**

**Hall Ticket Number:**

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| **IV/IV B.Tech (Regular) DEGREE EXAMINATION** | | | |
| **May, 2022** | **Computer Science and Engineering** | | |
| **Eighth Semester** | **Python Programming** | | |
| **Time:** Three Hours | | **Maximum:** 50 Marks | |
| *Answer Question No.1 compulsorily.* | | | (1X10 = 10 Marks) |
| *Answer ONE question from each unit.* | | | (4X10=40 Marks) |
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| 1. | a) | What is the maximum possible length of an identifier? | CO1 |  |
|  | b) | How to specify an empty body of FOR Loop | CO1 |  |
|  | c) | What is the difference between BREAK & CONTINUE | CO1 |  |
|  | d) | Differentiate Recursion with Iteration | CO2 |  |
|  | e) | What is the use of seek( ) ? | CO2 |  |
|  | f) | Differentiate index( ) and find( ) in strings. | CO2 |  |
|  | g) | Write the command to insert 5 at third position in list1. | CO3 |  |
|  | h) | How many ways dictionary can be created and initialized? | CO3 |  |
|  | i) | What are the access specifiers used in Python Programming? | CO4 |  |
|  | j) | What are the steps required to connect with Database using Python | CO4 |  |
| **Unit -I** | | | | |
| 2. | a) | How would you classify literals and explain with the help of examples. | CO1 | 5M |
|  | b) | Write a python Script to check given number is Armstrong (n-digit) or not. | CO1 | 5M |
| **(OR)** | | | | |
| 3. | a) | Categorize Selection statements in python with suitable examples. | CO1 | 5M |
|  | b) | Demonstrate how to handle multiple exceptions in python with an example. | CO1 | 5M |
| **Unit -II** | | | | |
| 4. | a) | Define a function and Illustrate types of function arguments with example | CO2 | 5M |
|  | b) | Demonstrate basic string operations length, Indexing and slicing with an appropriate example. | CO2 | 5M |
| **(OR)** | | | | |
| 5. | a) | Write a python script to accept a line of text and find the number of characters, number of vowels and number of blank spaces in it. | CO2 | 5M |
|  | b) | Demonstrate the reading and writing operations in sequential files. | CO2 | 5M |
| **Unit -III** | | | | |
| 6. | a) | Categorize various methods of list with necessary examples. | CO3 | 5M |
|  | b) | Define Tuple. Give syntax for creating a tuple and accessing elements in tuple with suitable examples. | CO3 | 5M |
| **(OR)** | | | | |
| 7. | a) | Demonstrate intersection(), intersection\_update(), difference() and difference\_update() operations on two sets with examples. | CO3 | 5M |
|  | b) | Demonstrate the process of Dictionary Comprehension with suitable examples. | CO3 | 5M |
| **Unit -IV** | | | | |
| 8. | a) | Demonstrate the usage of Metacharacters & Sequence in Regular Expression with suitable examples | CO4 | 5M |
|  | b) | Write a Program that demonstrates the usage of Multiple Inheritance in Python. | CO4 | 5M |
| **(OR)** | | | | |
| 9. | a) | Demonstrate the process of method overriding in Python with suitable example. | CO4 | 5M |
|  | b) | How to connect database with python program and perform insert, delete operations in table. | CO4 | 5M |

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