**INTERNAL ASSIGNMENT**

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| **SESSION** | **AUGUST 2023** |
| **PROGRAM** | **BACHELOR of COMPUTER APPLICATION (MCA)** |
| **SEMESTER** | **5** |
| **course CODE & NAME** | **DCA3104 – Python Programming** |
| **CREDITS** | **4** |
| **nUMBER OF ASSIGNMENTS & Marks** | **02**  **30 Marks each** |

**Note:** Answer all questions. Kindly note that answers for 10 marks questions should be approximately of 400 - 450 words. Each question is followed by evaluation scheme.

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| **Q.No** | **Assignment Set – 1**  **Questions** | **Marks** | **Total Marks** |
|  | 1. Explain the features and application areas of python programming in detail. 2. What are the different types of data types used in python programming? | 5+5 | 10 |
|  | 1. Explain membership and identity operators with example. 2. Discuss the use of else statement with for and while loop. | 5+5 | 10 |
|  | 1. Write a program to delete duplicate elements from list without using remove () function. 2. Explain the differences between list, tuple and set in detail. | 5+5 | 10 |
| **Q.No** | **Assignment Set – 2**  **Questions** | **Marks** | **Total Marks** |
|  | 1. “**Hi, Python is very popular language**”. Write a program to count the number of uppercase, lowercase characters, special characters and spaces in the above string. 2. Explain the ways of deleting an element from dictionaries. | 5+5 | 10 |
|  | 1. Explain the difference between keyword arguments and variable length function with example. 2. Write a program to create user defined exception and raise it. | 5+5 | 10 |
|  | 1. Write a program to implement any( ), all( ), sum( ), min( ), max( ), bool( ), bytes( ) functions. Explain their uses also. 2. Explain the use of pandas, numpy and matplotlib libraries with example. | 5+5 | 10 |