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**PRESIDENCY UNIVERSITY**

**Bengaluru**

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| **Ph.D. Course Work End Term Examinations – JAN-FEB 2025** |
| **Date:** 31- 01- 2025 **Time:** 09:30 am – 12:30 pm |

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| **School:** SOM | **Program:** Ph.D. | |
| **Course Code :** MGT919 | **Course Name :** Programming For Analytics Using Python | |
| **Semester**: | **Max Marks**: 100 | **Weightage**: 50% |

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| --- | --- | --- | --- | --- | --- |
| **CO - Levels** | **CO1** | **CO2** | **CO3** | **CO4** | **CO5** |
| **Marks** | **20** | **20** | **10** | **30** | **20** |

**Instructions:**

1. *Read all questions carefully and answer accordingly.*
2. *Do not write anything on the question paper other than roll number.*

**Part A**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Answer ALL the Questions. Each question carries 10 marks. 6Q x 10M=60Marks** | | | | | |
| **1** | Explain list and tuple in python? | **10 Marks** | **L1** | **CO1** |
| **2** | What are the Data Structures used in Pandas? Describe any 3 data manipulations possible with DataFrame | **10 Marks** | **L1** | **CO1** |
| **3** | Explain combining and merging of dataset with an example in pandas | **10 Marks** | **L2** | **CO2** |
| **4** | Explain any 5 operations performed on string with an example. | **10 Marks** | **L2** | **CO2** |
| **5** | Explain Reshape Pivot options with an example | **10 Marks** | **L3** | **CO3** |
| **6** | write a python function to perform arithmetic operations using numpy | **10 Marks** | **L3** | **CO4** |

**Part B**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Answer the Questions. Each question carries 20 marks 2Q x 20 = 40 Marks** | | | | | |
| **7.** |  | Discuss inheritance in Python programming language.   1. Write a Python program to demonstrate the use of super() function. 10 Marks 2. Program to demonstrate the Overriding of the Base Class method in the Derived Class. 10 Marks | **20 Marks** | **L5** | **CO4** |
|  | | | | | |
| **8.** |  | Explain the following methods with an example in Seaborn   * 1. Histplot()   2. Kdeplot()   3. Displot()   4. Joinplot() | **20 Marks** | **L5** | **CO5** |

**\*\*\*\*\* BEST WISHES \*\*\*\*\***