**Course Code:** **DECAP776**

**Course Name:** **PROGRAMMING IN PYTHON**

***Important instruction:***

***1. The question paper contains 5 questions out of which only one question shall be allocated by the neutral examiner. The candidate should attempt only the allocated questions out of the 5 given questions as per the allocation key. The same should be cross verified by a neutral examiner****.*

Q 1: When was the python language created, who created it and why?

Q 2: Give meaning and examples of any five inbuilt functions related to sequence handling?

Q 3: Explain the concept of exception handling in Python and provide an example where a ‘try’ and ‘except’ block is used to catch a specific type of exception.

Q 4: Compare and contrast NumPy arrays with Python lists. Discuss at least three advantages of using NumPy arrays over lists in numerical computations.

Q 5: What is a regression problem? Write the steps to fit linear regression model to a dataset. Also mention the data cleaning steps?