



PRESIDENCY UNIVERSITY
BENGALURU
RESEARCH & DEVELOPMENT

Ph.D. Course Work - Mid-Term Examination September 2024

School/Department: Engineering/ Mathematics

Date: 27/09/2024

Course Code: MAT 844

Time: 10:00AM to 11:30AM

Course Name: Python Programming

Max Marks: 50

Course Credit: 2-0-0

Weightage: 25%

Instructions:

- (i) *Read the question properly and answer accordingly.*
 - (ii) *The question paper consists of 3 parts.*
 - (iii) *Scientific and Non-programmable calculators are permitted.*
-

Part A [Memory Recall Questions]

Answer all the Questions. Each question carries 2 marks. (5Qx2M=10M)

1. How do you define a function in Python? (C.O.NO.1) [Knowledge]
2. Explain the feature of append in Python. (C.O.NO.1) [Knowledge]
3. How do you create a list in Python? (C.O.NO.1) [Knowledge]
4. What is the difference between a list and a tuple? (C.O.NO.2) [Knowledge]
5. Define the List with an example. (C.O.NO.2) [Knowledge]

Part B [Thought Provoking Questions]

Answer all the Questions. Each question carries 4 marks. (4Qx4M=16M)

6. Explain the features of Python (C.O.NO. 1) [Comprehension]
7. What is a variable? Explain the types of variables with a simple program (C.O.NO. 1) [Comprehension]
8. How do you handle exceptions in Python? Explain. (C.O.NO. 1) [Comprehension]
9. Explain the function with an example (C.O.NO. 2) [Comprehension]

Part C [Problem Solving Questions]

Answer all the Questions. Each question carries 8 marks. (3Qx8M=24M)

10. Write a program to generate the Fibonacci sequence (C.O.NO. 2) [Application]

11. What are Python Packages used in Deep learning (C.O.NO. 2) [Application]

12. What are Pseudo codes? What are the Characteristics of Pseudocode
(C.O.NO. 2) [Application]