PRESIDENCY UNIVERSITY

BENGALURU

Department of Research & Development
Mid - Term Examinations - SEPTEMBER 2024

Odd Semester: Ph.D. Course Work	**Date**: 27 /09/2024
Course Code: MAT841	**Time**: 2:00pm – 3:30pm
Course Name: Machine learning with Graphs.	**Max Marks**: 50
Department: Mathematics	**Weightage**: 25%

Instructions:

(i) Read all questions carefully and answer accordingly.

(ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 5 marks.		4Qx5M=20M
1	Explain the types of machine learning.	**5 Marks**
2	Detail about applications of machine learning that use ROC graphics.	**5 Marks**
3	Differentiate between correlation and regression.	**5 Marks**
4	Briefly explain graph kernels.	**5 Marks**

Part B

Answer ALL Questions. Each question carries 15 marks.		2QX15M=30M
5	a) Describe the role of reasoning in machine learning. b) Explain about Natural learning process.	**15 Marks**
6	a)Describe Graph representation learning. b)Write a detailed note on traditional machine learning on graph.	**15 Marks**