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**PRESIDENCY
UNIVERSITY**
BENGALURU

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

Odd Semester: Ph.D. Course Work	Date: 27 /09/2024
Course Code: CSE905	Time: 2:00pm – 3:30pm
Course Name: Machine Learning and Deep Learning	Max Marks: 50
Department: CSE	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	Discuss any five main challenges of machine learning.	5 Marks
2	What are the basic design issues and approaches to machine learning?	5 Marks
3	Explain shallow neural networks.	5 Marks
4	What is gradient descent algorithm and discuss its any two types.	5 Marks

Part B

Answer ALL Questions. Each question carries 15 marks.		2Qx15M=30M
5	Demonstrate the basic framework of reinforcement learning.	15 Marks
6	Compare and contrast stateful and stateless LSTMS.	15 Marks