Roll No.												

PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations – March 2026

Date: 11-03- 2026 **Time:** 11.45am to 01.15pm

School: SOCSE	**Program:** B.Tech Computer Science and Engineering	
Course Code: ADS2510	**Course Name:** Deep Learning and Reinforcement Learning	
Semester: VI	**Max Marks**: 50	**Weightage**: 25%

CO - Levels	**CO1**	**CO2**	**CO3**	**CO4**	**CO5**
Marks	**26**	**24**	**-**	**-**	**-**

Instructions:

(i) Read all questions carefully and answer accordingly.

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

Part A

Answer ALL the Questions. Each question carries 2marks. **5Q x 2M=10M**

1	Define feed forward neural network	**2 Marks**	**L1**	**CO1**
2	Define Vanishing Gradient Problem	**2 Marks**	**L1**	**CO1**
3	Define MLP	**2 Marks**	**L1**	**CO1**
4	Review Batch Normalization	**2 Marks**	**L2**	**CO2**
5	Contrast Overfitting and Underfitting	**2 Marks**	**L2**	**CO2**

Part B

Answer the Questions. **Total Marks 40M**

6.	**a.**	Explain the concept of BackPropogation.	**10 Marks**	**L2**	**CO1**
	b.	Explain how to train deep learning model step by step	**10 Marks**	**L2**	**CO1**
		Or			
7.	**a.**	Explain the types of activation functions and also justify the usage of Activation functions in neural networks.	**10 Marks**	**L2**	**CO1**
	b.	Summarize the Architecture of deep neural network in detail	**10 Marks**	**L2**	**CO1**

8.	**a.**	Explain the concept of Regularization and Optimization	**10 Marks**	**L2**	**CO2**
	b.	Describe the different types of weights initialization techniques in detail	**10 Marks**	**L2**	**CO2**
		Or			
9.	**a.**	Explain Batch Normalization in deep neural networks	**10 Marks**	**L2**	**CO2**
	b.	Explain why Dropouts are used in Neural Networks	**10 Marks**	**L2**	**CO2**