SRINIVASA INSTITUTE OF ENGINEERING AND TECHNOLOGY

UGC – Autonomous Institution

III B. Tech II Semester II MID Examinations, MAY -2025

DEEP LEARNING

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Time: 90 Mins   Max. Marks:30   Date:01.05.2025

S.No	Note: Answer All Questions	Marks	LEVEL	CO	PO
1.	a) Define Convolutional Neural Networks. List the main components and their functions in a CNN architecture. b) Explain how representation learning works in CNNs. Why is it important in deep learning tasks?	10	K 1	CO 3	PO 2, PO 1
2.	Illustrate the role and working of Convolutional Layers with a neat diagram and example.	10	K 2	CO 2	PO2, PO3
3.	What is multichannel convolution? Describe with an example how convolution operation works on RGB images.	10	K 1	CO 4	PO 3, PO 1