

School of Computing Science and Engineering
Bachelor of Technology in Computer Science and Engineering
Semester End Examination - Nov 2023

Duration : 180 Minutes
Max Marks : 100

Sem VII - BTCS9608 - Deep Learning

General Instructions
Answer to the specific question asked
Draw neat, labelled diagrams wherever necessary
Approved data hand books are allowed subject to verification by the Invigilator

- 1) List the components in structure of a biological neural network. K1 (2)
- 2) List the differences between deep learning and machine learning. K2 (4)
- 3) Outline the difference between LSTM and gated recurrent units. K2 (6)
- 4) Build an ANN-based recommendation system for an online shopping platform. K3 (9)
- 5) Develop the working cycle of Single Layer Perceptron Model K3 (9)
- 6) Assess the architecture of pre trained CNN Models. K5 (10)
- 7) Analyze the popular datasets available on public domain. K4 (12)
- 8) Elaborate how Amazon is able to recommend other things to buy. How does the Recommendation Engine work? K5 (15)
- 9) Explain how a system can play a game of chess using Reinforcement Learning. K5 (15)
- 10) Imagine the ANN neural network shown in the figure below. Using the sigmoid activation function compute the values of H1, H2, y1, y2 and Mean Square Error (MSR). K6 (18)

