

# School of Engineering

Department of Electrical Electronics and Communication Engineering  
Mid Term Examination

Exam Date: 26 Sep 2023  
Time : 90 Minutes  
Marks : 50

## Sem VII - BECE4401 - Soft Computing

*Your answer should be specific to the question asked  
Draw neat labeled diagrams wherever necessary*

- 1) Compare the performance of a computer and that of a biological neural network in terms of speed of processing and fault tolerance K2 (2)
- 2) Define Artificial Neural Network K1 (3)
- 3) Explain important characteristics and applications of artificial neural network K2 (4)
- 4) Outline the classical models for an artificial neurons? K2 (6)
- 5) Build Biological neural network and Explain its each constituent. K3 (6)
- 6) Construct the basic McCulloch-Pitts model for Artificial neural Network. K3 (9)
- 7) Categorize a Adaline model to obtain the error in it. K4 (8)
- 8) Distinguish Perceptron and Adaline models of neuron. Also explain each of them K4 (12)

**OR**

Distinguish Mamdani method and Sugeno method for fuzzy inference K4 (12)