- Q1) a) Define Artificial Intelligence (AI) and explain its major types.
 - b) What are the key differences between Machine Learning, Deep Learning, and AI?
- Q2) a) Explain the difference between training error and testing error in machine learning models.
 - b) How do confusion matrices help in evaluating classification models?
- Q3) a) Explain the key differences between biological vision and machine vision.
 - b) Define computer vision and list its major applications.
- Q4) a) Define an artificial neural network (ANN) and explain its components.
- b) What are activation functions? Explain ReLU, Sigmoid, and Softmax activation unctions.
- Q5) a) Differentiate between Keras, TensorFlow, Theano, and CNTK.
 - b) Explain the architecture of a simple neural network.
- Q6) a) Compare and contrast **Keras**, **TensorFlow**, **Theano**, **and CNTK** in terms of usability and performance.
 - b) Explain the difference between **overfitting and underfitting** in neural networks.