Lab 1 Artificial Intelligence Introduction

## Instructions

1. Answer the below question in the boxes if needed.
2. Please submit the assignment after you finish.

## Part 1 Assignment

**Q1 What is deep learning a subset of?**

A. Artificial Intelligence

B. Cloud Computing

C. Internet of Things

D. Blockchain

Answer:

**Q2 Which technology is not a part of deep learning?**

A. Convolutional Neural Network (CNN)

B. Recurrent Neural Network (RNN)

C. Logistic Regression

D. Long Short-Term Memory (LSTM)

Answer:

**Q3 In artificial intelligence, which method simulates the working of neurons in the human brain?**

A. Genetic Algorithm

B. Neural Network

C. Fuzzy Logic

D. Expert System

Answer:

**Q4 What is the role of training data in machine learning?**

A. To test the accuracy of the model

B. To validate the performance of the model

C. To adjust the parameters of the model

D. To evaluate the robustness of the model

Answer:

**Q5 What does the "depth" in deep learning usually refer to?**

A. The diversity of data

B. The computational complexity of the model

C. The number of layers in the neural network

D. The training time of the model

Answer:

**Q6 In machine learning, which term is used to describe the performance of a model on new data?**

A. Training Error

B. Validation Error

C. Test Error

D. Generalization Error

Answer:

**Q7 What is the definition of Artificial Intelligence?**

A. Machines able to think and perceive like humans

B. The ability of computer systems to perform intelligent tasks

C. Machines created by humans with self-awareness

D. Training computer systems through algorithms and data to simulate human intelligence

Answer:

**Q8 Which of the following is not a primary classification of Artificial Intelligence?**

A. Strong Artificial Intelligence

B. Weak Artificial Intelligence

C. Machine Perception Systems

D. Machine Learning

Answer:

**Q9 Which of the following is not an application of Artificial Intelligence in the medical field?**

A. Disease diagnosis

B. Patient data management

C. Predicting soccer match outcomes

D. Medical image analysis

Answer:

**Q10 The potential impacts of Artificial Intelligence on the job market may include:**

A. Reduction in low-skilled jobs

B. Increased demand for robotics engineers

C. Enhancement of innovation and creativity positions

D. All of the above

Answer: