**Task 1: Answer the following questions**

Question 1: What is Machine Learning?

A) The process of training computers to perform tasks without explicit programming.

B) The study of creating intelligent agents capable of human-like reasoning.

C) The development of algorithms that can solve complex mathematical problems.

D) The process of designing and manufacturing advanced robotic systems.

Question 2: What is Deep Learning?

A) A subset of AI that focuses on symbolic reasoning and logical inference.

B) The study of training machines to mimic the human brain's neural connections.

C) A type of machine learning that involves using neural networks with multiple layers.

D) The process of automating routine tasks using software automation tools.

Question 3: ML vs. DL vs. AI

Which of the following statements is true?

A) Machine Learning is a subset of Deep Learning, which is a subset of Artificial Intelligence.

B) Deep Learning is a subset of Machine Learning, which is a subset of Artificial Intelligence.

C) Artificial Intelligence is a subset of Machine Learning, which is a subset of Deep Learning.

D) Artificial Intelligence is a subset of Deep Learning, which is a subset of Machine Learning.

Question 4: What is Supervised Learning?

A) A type of machine learning where algorithms learn from labeled data and make predictions on new, unlabeled data.

B) A type of machine learning that doesn't require training data and directly predicts outcomes.

C) A technique where computers learn through trial and error, optimizing actions to maximize rewards.

D) A method of training neural networks with multiple hidden layers.

Question 5: Real-world Applications of ML

Which of the following scenarios is a real-world application of Machine Learning?

A) Developing a robot with human-like consciousness.

B) Creating a virtual reality game with interactive storytelling.

C) Predicting stock market trends based on historical data.

D) Designing a self-replicating algorithm for computer viruses.