**ACTIVITY #1**

**Type of activity: Inference multiple choice activity**

Read each question carefully and select the most appropriate answer based on the information provided in the text.

1. What is the primary focus of Reinforcement Learning (RL)?

A. Image Recognition

B. Learning from Interactions

C. Text Classification

D. Unsupervised Learning

2. Which Reinforcement Learning model assumes that the environment is fully observable?

A. Semi-MDP

B. Multi-Agent Reinforcement Learning

C. Markov Decision Process (MDP)

D. POMDP (Partially Observable MDP)

3. What distinguishes Deep Reinforcement Learning from traditional RL approaches?

A. Use of Evolutionary Algorithms

B. Integration with Deep Learning Techniques

C. Emphasis on Semi-MDP

D. Exclusively Model-Free Approach

4. What is the Exploration vs. Exploitation trade-off in Reinforcement Learning?

A. Balancing computational resources

B. Balancing model uncertainty

C. Balancing learning from experiences and maximizing known knowledge

D. Balancing supervised and unsupervised learning

5. In which application domain can Reinforcement Learning be used to train robots for tasks like grasping objects?

A. Natural Language Processing

B. Robotics

C. Computer Vision

D. Speech Recognition