Chapter 5

Q1: Explain Passive Reinforcement Learning. How is it different from Active Reinforcement Learning?

Q2: What is Direct Utility Estimation in reinforcement learning? Explain the steps involved with an example.

Q3: What is Adaptive Dynamic Programming in reinforcement learning? How does it improve over passive learning?

Q4: What is Temporal Difference Learning? How does it combine ideas from Monte Carlo methods and Dynamic Programming?

Q5: What is Q-Learning in Active Reinforcement Learning? Explain the Q-value update formula with an example.

Q6: Differentiate between Supervised and Semi-supervised Learning

Q7: Explain capabilities of expert systems.

Chapter 6

Q1 .Explain how arrays in NumPy are different from Python lists and why this is beneficial in ML

Q2.Explain the role of NumPy in machine learning applications with an example.

Q3.Explain how to install Python and set up the PATH variable in a Windows environment.

Q4.Explain how Python is used to implement basic P AI applications.

Q5. What is the significance of the Bellman equation in Adaptive Dynamic Programming

Q6. Explain how passive reinforcement learning differs from active reinforcement learning with suitable examples