Q1. [10M] Mention the types of hierarchical clustering algorithms and explain them with dendrograms. [CO5][L2]

Q2. [10M] Explain the K-Means clustering algorithm with steps and examples. [CO5][L3]

Q3. [10M] Describe the grid-based clustering approach. What is CLIQUE? Mention its steps, advantages, and limitations. [CO5][L2]

Q4. [10M] List the characteristics, applications, and challenges of Reinforcement Learning. [CO5][L2]

Q5. [10M] Explain the components of Reinforcement Learning with a diagram. [CO5][L2]

Q6. [10M] Define and differentiate between immediate reward, total reward, and long-term reward in RL. [CO5][L2]

Q7. [10M] What is a policy in Reinforcement Learning? How is an optimal policy selected? [CO5][L2]

Q8. [10M] Explain the Q-Learning algorithm. [CO5][L2]

Q9. [10M] Explain the SARSA learning algorithm. [CO5][L2]