

# Reference – Shown-as-Correct Answers

July 25, 2025

## Q1

Answer presented as correct: D) Deep Q-Network (DQN)

*Reason: Known for its efficient and robust approach to solving reinforcement learning problems.*

## Q2

Answer presented as correct: B) Observations lack some hidden variables

*Reason: Observations might seem complete, yet vital details remain concealed.*

## Q3

Answer presented as correct: B) Use of neural networks

*Reason: Q-learning commonly utilizes advanced machine learning techniques for enhanced decision-making capabilities.*

## Q4

Answer presented as correct: B) Action-value minus state-value

*Reason: Commonly confused due to similar terms, but the calculation direction in Actor-Critic distinguishes it.*

## Q5

Answer presented as correct: D) Early stopping

*Reason: Halts training when performance plateaus, preventing overfitting and conserving computational resources.*

## Q6

Answer presented as correct: A) Immediate rewards

*Reason: Prioritizes immediate outcomes for decision-making efficiency.*

## Q7

Answer presented as correct: A) Balancing policy and value networks

*Reason: Necessary for decision-making by weighting actions based on their historical performance.*