

True/False and Multiple Choice Questions

Instructions: Select the correct option(s) for each question. Some questions may have multiple correct answers. Provide a short explanation for all.

Question 1) Temporal difference method introduces variance but reduces bias.

True) True

False) False

Question 2) In an episodic environment, the goal of policy-based RL algorithms is to maximize the expected return of initial states.

True) True

False) False

Question 1) Which of the follow is/are off-policy RL method(s)?

A) Sarsa

B) REINFORCE

C) Q-learning

D) Actor-Critics

Question 2) What are the general principles for designing the policy in policy-based RL methods:

A) differentiable

B) non-deterministic

C) easy to sample from

D) additive

Question 1) What is the “maximization bias” in Q-learning, and how do we address it?