

**CS3018 Reinforcement Learning**fast-logo

**Quiz 1**

Date: 6th February, 2025

Give short answers to the following questions:

1. What is the multi-armed bandit problem in Reinforcement Learning and why is it named so?
2. What is meant by the action value method? Describe the action value method used in the multi-armed bandit problem.
3. What is the exploration vs exploitation dilemma in multi-armed bandit method?
4. Describe the 10-armed testbed used for evaluating the performance of epsilon greedy algorithm for different values of epsilon.
5. Give an example where actions of an agent may have delayed effects.