QUIZ TOPIC - REINFORCEMENT LEARNING

1. **Reinforcement learning is-**

- ○ A. Unsupervised learning
- ○ B. Supervised learning
- ◉ C. Award based learning ✔
- ○ D. None

2. **Which of the following is an application of reinforcement learning?**

- ○ A. Topic modeling
- ◉ B. Recommendation system ✔
- ○ C. Pattern recognition
- ○ D. Image classification

3. **Upper confidence bound is a**

- ◉ A. Reinforcement algorithm ✔
- ○ B. Supervised algorithm
- ○ C. Unsupervised algorithm
- ○ D. None

4. **Which of the following is true about reinforcement learning?**

- ○ A. The agent gets rewards or penalty according to the action
- ○ B. It’s an online learning
- ○ C. The target of an agent is to maximize the rewards
- ◉ D. All of the above ✔

5. **You have a task which is to show relative ads to target users. Which algorithm you should use for this task?**

- ○ A. K means clustering
- ○ B. Naive Bayes
- ○ C. Support vector machine
- ◉ D. Upper confidence bound ✔

6. **Hidden Markov Model is used in-**

- ○ A. Supervised learning
- ○ B. Unsupervised learning
- ○ C. Reinforcement learning

◉ D. All of the above ✔

7. **Which algorithm is used in robotics and industrial automation?**

◉ 'A. Thompson sampling ✔
○ B. Naive Bayes
○ C. Decision tree
○ D. All of the above

8. **Thompson sampling is a-**

○ A. Probabilistic algorithm
○ B. Based on Bayes inference rule
○ C. Reinforcement learning algorithm ✖
◉ D. All of the above ✔

9. **Which of the following is false about Upper confidence bound?**

○ A. It's a Deterministic algorithm
○ B. It does not allow delayed feedback
○ C. It is not based on Bayes inference
◉ D. None ✔

10. **The multi-armed bandit problem is a generalized use case for-**

◉ A. Reinforcement learning ✔
○ B. Supervised learning
○ C. Unsupervised learning
○ D. All of the above