

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -3 EXAMINATIONS-2022

B.Tech-VIII Semester (CS/IT)

COURSE CODE (CREDITS): 19B1WCI837 CS-IT (3)

MAX. MARKS: 35

COURSE NAME: REINFORCEMENT LEARNING

COURSE INSTRUCTORS: Dr. Rakesh Kanji

MAX. TIME: 2 Hours

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*Note: All questions are compulsory. Marks are indicated against each question in square brackets.*

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- Q1. What is more practical and easy to implement eligibility trace with forward or backward view? Explain one of them with diagram. [2+5]
- Q2. Explain planning method for sum for 2 dice? [3]
- Q3. Write the pseudocode of Random-sample one-step tabular Q-planning. [3]
- Q4. Why we require function approximation for state value? Explain linear method to implement it. [2+5]
- Q5. How Watkins method performs reinforcement learning for computing TD control. [3]
- Q6. Write down structure of temporal difference learning with an example. [4]
- Q7. How can you generate Montecarlo and Markov chain with TD. [4]
- Q8. Write down structure or implementation of Function approximation method. [4]