Review Test Submission: Quiz 6.1

User	BRIAN THOMAS LOUGHRAN
Course	EN.605.647.81.SP21 Neural Networks
Test	Quiz 6.1
Started	3/3/21 7:09 PM
Submitted	3/3/21 7:12 PM
Due Date	3/9/21 11:59 PM
Status	Completed
Attempt Score	6 out of 11 points
Time Elapsed	2 minutes
Instructions	Please complete this quiz after viewing the Module 6.1 Recorded Lecture.
Results Displayed	Submitted Answers, Feedback, Incorrectly Answered Questions

Question 1

2 out of 2 points

The probabilities in an ensemble must some to at least the value of $e^{-E(i)}$ where the index i corresponds to an element of that ensemble with the greatest probability of occurring.

Selected Answer: False

Question 2

0 out of 2 points

The transition probability used in the simulation of a thermodynamic system is based on solving a non-linear math program that maximizes the probability of events in an ensemble of occurring.

Selected Answer: True

Question 3

2 out of 2 points

The form of the transition probabilities in simulated annealing need to take into account just the non-linear math program and the detailed balance equations for each state *i*.

Selected Answer: False

Question 4

0 out of 3 points

In a minimization problem, simulated annealing will move from state *i* to state *j* where $f_i = 2$ and $f_j = 2$ at temperature 10 with probability

Selected Answer:

$e^{-(2-10)}$

Question 5

2 out of 2 points

Simulated Annealing convergences in probability to the globally optimal solution when certain cooling schedules are used.

Selected Answer: True

Wednesday, March 3, 2021 7:12:34 PM EST

← OK