Review Test Submission: Week05 Quiz Ch04

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Course	CS 6364.001 - Artificial Intelligence - F15
Test	Week05 Quiz Ch04
Started	9/26/15 9:23 PM
Submitted	9/26/15 9:27 PM
Due Date	9/26/15 11:59 PM
Status	Completed
Attempt Score	12 out of 12 points
Time Elapsed	4 minutes out of 30 minutes
Results Displayed	All Answers, Submitted Answers, Correct Answers

Question 1

12 out of 12 points

Select one best answer for each question.

Question	Correct Match	Selected Match
____ is sometimes called greedy local search because it grabs a good neighbor state without thinking ahead about where to go next.	G. Hill climbing	G. Hill climbing
____ is a peak that is higher than each of its neighboring states but lower than the global maximum.	D. Local Maximum	D. Local Maximum
___ results in a sequence of local maxima that is very difficult for greedy algorithms to navigate	J. Ridge	J. Ridge
____ is a flat area of the state-space landscape. It can be a flat local maximum, from which no uphill exit exists, or a shoulder, from which progress is possible.	C. Plateau	C. Plateau
____ hill climbing chooses at random from among the uphill moves; the probability of selection can vary with the steepness of the uphill move.	H. Stochastic	H. Stochastic
____ hill climbing implements stochastic hill climbing by generating successors randomly until one is generated that is better than the current state.	K. First-choice	K. First-choice
____ hill climbing con-ducts a series of hill-climbing searches from	A.	A.

randomly generated initial states, until a goal is found.	Random-Restart	Random-Restart
If there are few local maxima and Plateaux, ___ hill climbing will find a good solution very quickly.	A. Random-Restart	A. Random-Restart
____ solution is to start by shaking hard (i.e., at a high temperature) and then gradually reduce the intensity of the shaking (i.e., lower the temperature).	F. Simulated-annealing	F. Simulated-annealing
___ search algorithm keeps track of k states rather than just one. It begins with k randomly generated states. At each step, all the successors of all k states are generated. If goal is found, it halts. Otherwise, it selects the k best successors and repeats.	E. Local-beam	E. Local-beam
___ algorithm is a stochastic hill-climbing search in which a large population of states is maintained. New states are generated by mutation and by crossover, which combines pairs of states from the population.	I. Genetic	I. Genetic
In nondeterministic environments, agents can apply ___ search to generate Con-tingent plans that reach the goal regardless of which outcomcs occur during execution	B. And-Or	B. And-Or

All Answer Choices

A. Random-Restart

B. And-Or

C. Plateau

D. Local Maximum

E. Local-beam

F. Simulated-annealing

G. Hill climbing

H. Stochastic

I. Genetic

J. Ridge

K. First-choice

Tuesday, October 6, 2015 4:54:28 PM CDT

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