

Unit 3 - Week 1: AI and AI Problem Solving

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Week 1: AI and AI Problem Solving
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Assignment 1

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2019-08-14, 23:59 IST.

- 1) Who coined the term Artificial Intelligence? 1 point
 - A. Marvin Minsky
 - B. Alan Turing
 - C. John McCarthy
 - D. Issac Asimov

No, the answer is incorrect.
Score: 0
Accepted Answers:
C. John McCarthy
- 2) Turing test or Imitation Game, was put forth as a simple test that could be used to _____. 1 point
 - A. Prove machines could think.
 - B. Break the enigma code.
 - C. Show human are intelligent.
 - D. Show machines can compute.

No, the answer is incorrect.
Score: 0
Accepted Answers:
A. Prove machines could think.
- 3) To solve a problem using a production system, one must specify _____. 1 point
 - A. The Global database, Rules and Control Strategy
 - B. Some search technique
 - C. Initial facts only
 - D. Constraints

No, the answer is incorrect.
Score: 0
Accepted Answers:
A. The Global database, Rules and Control Strategy
- 4) Overall computational cost of a AI Production System is in two major categories: Rule Application Cost and Control Strategy Cost. For an Uninformed Control System, we have the following: 1 point
 - A. Low Rule Application Cost and High Control Strategy Cost
 - B. Low Rule Application Cost and Low Control Strategy Cost
 - C. High Rule Application Cost and Low Control Strategy Cost
 - D. High Rule Application Cost and High Control Strategy Cost

No, the answer is incorrect.
Score: 0
Accepted Answers:
C. High Rule Application Cost and Low Control Strategy Cost
- 5) The 8-puzzle problem have a total of _____ states in its State Space. 1 point
 - A. 9!
 - B. 8!
 - C. Infinite
 - D. 64!

No, the answer is incorrect.
Score: 0
Accepted Answers:
A. 9!
- 6) There are two distinct specialized production systems; Order in which a set of applicable rules is applied to a database is unimportant for a _____ production system. 1 point
 - A. Decomposable
 - B. Commutative
 - C. Specialized
 - D. AND/ OR

No, the answer is incorrect.
Score: 0
Accepted Answers:
B. Commutative
- 7) Domain knowledge is used to make preferential choice between the child nodes in _____. 1 point
 - A. Depth First Search
 - B. Breadth First Search
 - C. Heuristic Search
 - D. Depth Limited Search

No, the answer is incorrect.
Score: 0
Accepted Answers:
C. Heuristic Search
- 8) _____ aims at building machines that act intelligently, without taking a position on whether or not the machines actually are intelligent. 1 point
 - A. Weak AI
 - B. Strong AI
 - C. Connectionist AI
 - D. Symbolic AI

No, the answer is incorrect.
Score: 0
Accepted Answers:
A. Weak AI
- 9) For Breadth First Search, the following statements are correct 1 point
 - A. Fringe is a FIFO queue
 - B. Fringe is a LIFO queue
 - C. Deepest node is expanded first.
 - D. Nodes are added to the front of the OPEN list.

No, the answer is incorrect.
Score: 0
Accepted Answers:
A. Fringe is a FIFO queue
- 10) For bidirectional search is a graph search algorithm that runs two simultaneous searches. Which of the following statements is false for bidirectional search? 1 point
 - A. Requires the ability to generate predecessor states.
 - B. Bidirectional search is always optimal.
 - C. Stop when the frontiers intersect.
 - D. Works well only when there are unique start and goal states.

No, the answer is incorrect.
Score: 0
Accepted Answers:
B. Bidirectional search is always optimal.