

Quiz 2

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1. For how many queens was the extended version of Eight Queen Puzzle applicable for $n \times n$ squares? 1 point

- ☐ 5
- ☐ 6
- ☐ 8
- ☒ n

Clear selection

2. How many solutions are there for 8 queens on 8×8 board? 1 point

- ☐ 12
- ☐ 91
- ☒ 92
- ☐ 93

Clear selection

3. Which of the following types does the Cryptarithmic problem belong to? 1 point

- ☐ Encryption Problem
- ☐ Constraint Satisfactory Problem
- ☐ Number problem
- ☒ All of these

Clear selection



4. Which of the mentioned points are not valid with respect to a Cryptarithmic problem?

1 point

- ☐ Constraints should be taken care of while solving the problem
- ☒ If numbers are not sufficient, we can use special symbols like \$#@% to encrypt the text
- ☐ The text is converted from readable format to non-readable format
- ☐ None of these

Clear selection

5. A knowledge-based agent can combine general knowledge with current percepts to infer hidden aspects of the current state prior to selecting actions.

1 point

- ☒ True
- ☐ False

Clear selection

6. Which is not a familiar connective in First Order Logic?

1 point

- ☐ and
- ☐ iff
- ☐ or
- ☒ not

Clear selection



7. Assume that each alphabet can have a value between 0 to 9 in a cryptarithmic problem $CROSS + ROADS = DANGER$. Which of the following statement is true ? (i) No two alphabets can have the same numeric value. (ii) Any two alphabets may have the same numeric value. (iii) $D = 0$ (iv) $D = 1$

1 point

- ☐ (i) and (iii)
- ☒ (i) and (iv)
- ☐ (ii) and (iii)
- ☐ (ii) and (iv)

Clear selection

8. Best-First search is a type of informed search, which uses _____ to choose the best next node for expansion.

1 point

- ☒ Evaluation function returning lowest evaluation
- ☐ Evaluation function returning highest evaluation
- ☐ Both a & b can be used
- ☐ None of these

Clear selection



9. Which is not a type of First Order Logic (FOL) Sentence?

1 point

- ☐ Atomic sentences
- ☐ Complex sentences
- ☒ Quantified sentence
- ☐ Quality Sentence

Clear selection

10. To overcome the need to backtrack in constraint satisfaction problem can be eliminated by

1 point

- ☒ Hill algorithm
- ☐ Constraint Propagation
- ☐ Backtrack after a forward search
- ☐ Omitting the constraints and focusing only on goals

Clear selection

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