QUIZ!

Use a full sheet of $81 / 2 \times 11$ " paper. (Half sheet? Half credit!)
Put only your last name in the far upper left hand corner of the paper, where a staple would hit it. (It's OK to write BIG, just start in the corner!)


## AVOID A $1 / 2-$ POINT' DEDUCTION!

Numbering responses may help you avoid overlooking a question; it's ok to go ahead and pre-number your sheet.

Feel free to abbreviate.
5 questions; 3 minutes; $21 / 23^{1 / 2}$ points.
Briefly raise your hand when you're done.

$$
\begin{gathered}
\text { Quiz 12, April 9, } 2015 \\
3 \text { minutes; } ; 1 / 2+1 / 2+1+1+1 / 2 ; 21 / 23^{1 / 2} \text { points total }
\end{gathered}
$$

1. Write an example of a structure with two terms.
2. Write an example of a predicate indicator.
3. Draw the box of the four-port model and label the ports. Be sure to include the arrows for the ports. (1 point)
4. Consider the following query:
?- $A=B$, write (A), write ( - ), $A=10$, write (B), $A=20$.
What does it output, if anything?
Does it succeed or fail?
5. What is the following query asking? ?- color(lettuce,Cl), color(broccoli,C2), Cl == C2.

EC $1 / 2$ point: Rewrite $\# 5$ 's query to make better use of the language.

## Solutions

1. Write an example of a structure with two terms. $\mathrm{a}(\mathrm{b}, \mathrm{c})$.
2. Write an example of a predicate indicator. write/l
3. Draw the box of the four-port model and label the ports. Be sure to include the arrows for the ports. (1 point)

4. Consider the following query:
?- $A=B$, write( $A$ ), write(-), $A=10$, write( $B), A=20$.
What does it output, if anything? _GNum-10
Does it succeed or fail? It fails.
5. What is the following query asking?
?- color(lettuce, C1), color(broccoli,C2), C1 == C2.
Originally I wrote, "Are lettuce and broccoli the same color?" but "What color(s) do lettuce and broccoli have in common?" is more accurate.

EC 1⁄2 point: Rewrite \#5's query to make better use of the language.
?- color(lettuce,C), color(broccoli,C).

