QUIZ!
Use a full sheet of 8½x11" 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 ½-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; 2½ 3½ points.

Briefly raise your hand when you're done.
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,C1), color(broccoli,C2), C1 == C2.
   ```

   EC ½ point: Rewrite #5's query to make better use of the language.
Solutions

1. Write an example of a structure with two terms. \( a(b, c) \).

2. Write an example of a predicate indicator. \( \text{write/1} \)

3. Draw the box of the four-port model and label the ports. Be sure to include the arrows for the ports. (1 point)

```
  +-----------+-----------+  
  | call      | goal      | exit     
  +-----------+-----------+  
  | fail      |           | redo     
  +-----------+-----------+  
```

4. Consider the following query:

   \(- A=B, \text{write}(A), \text{write}(-), A=10, \text{write}(B), A=20.\)

   What does it output, if anything? \_GNum-10
   Does it succeed or fail? It fails.

5. What is the following query asking?

   \(- \text{color(lettuce,C1), color(broccoli,C2), C1 == C2.}\)

   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 ½ point: Rewrite #5's query to make better use of the language.
   \(- \text{color(lettuce,C), color(broccoli,C).}\)