Exam Tips

There will be 150 points on the exam, a perfect score is 100, and a minimum passing score is 50. Therefore, you do not need to do all the problems on the exam to pass the course. I will give a short description of some problems from the homework that you might want to look over again ;-)

1. Several Short Questions (Homework 2). There are a few more on the exam than on the homework, but you can already get many (easy) points here.
2. Wind Driven Ocean Circulation (Homework 8)
3. Rossby Waves (Theory Problem of Homework 6)
4. Bifurcation Problem. This was also discussed during the last lecture/review day.
5. Lorenz Equations (Homework 1)
6. Stochastic Climate Model (Homework 8)
7. Short Programming Questions (basically just thinking about what certain R commands will output - easy points here as well)
8. Ocean Overturning (Homework 7)
9. Angular Momentum and the Hadley Cell (Homework 8)
10. Correlation Maps and modes of Climate - Here, take a look at the climate modes again. NAO and ENSO are some of the more important ones that climate scientists deal with on a regular basis. Look at how they are defined and what they can tell you about different climate parameters (for example, sea level pressure and surface temperature). Maybe also look at typical time scales for various climate modes.

There are some other questions on the exam that were not directly treated in the homework, but were discussed in lecture. You could also look at Dynamic Similarity (Dimensionless approach). There are also 2 questions about Rosby/Kelvin/Gravity waves.

Again, you do not need to do all the questions during the 2 hours; in fact the exam is probably too long to complete everything in that time. To maximize your points, do the problems you know the answers to at the beginning, and then use the time you have left to look at the other question.