Atmo 201 Final Exam study guide

This exam has two parts. The smaller part covers material from chapter 19. Chapter specific info will appear below. This will generate 7-9 questions.

The other part will cover the entire course and be 41-43 questions. All material is fair game, but I will try to adhere very closely to the following guidelines. The material for the cumulative part will come specifically from areas noted in earlier study guides (all currently available on the class web site) as “emphasize”, not from other material. This part will include some actual questions from earlier exams and new questions. It will include a small number of questions I reviewed in class after exams; otherwise repeat questions will be chosen based on emphasis, not because they were especially hard or especially easy. Within each section, material will be covered in approximate proportion to the number of class days spent on a chapter. Material in this section will generally appear in both the book and lectures.

There will be roughly twice as many questions as previous exams and 2 full hours to finish. Two pages (i.e., 1 paper front and back) are allowed as notes. I recommend one page for the key elements of the last chapters, one for the earlier chapters, and 2 for more detail that you hope you don’t need.

Chapter 19
• Questions for review: 4, 6, 8-13, 15-16, 18-21
• Questions for thought: 9
White and colors
White clouds and scattered light
Blue skies and hazy days
Red suns and blue moons
Twinkling, twilight and the green flash
The mirage
The fata morgana
Halos, sundogs, and sun pillars
Rainbows
Coronas, glories, …
Can it be a rainbow if it is not raining

Note: rather than emphasizing by book section, emphasize things covered in the most detail in class, especially halos, rainbows, and mirages.