Review Sheet for Earth Sciences 2 Exam #1

The exam will be 100 questions, multiple-choice and T/F. You will need a ParSCORE form F-1712 (full page, pink scantron form, available at the bookstore: BRING ONE and some #2 PENCILS to the EXAM). ALL material is from lectures. Use your notes, web lecture notes and discussion information to prepare. Do not worry about the book, as that is supplementary information for this part of the course.

Questions will address all major lecture topics thus far, including topics like these (and more):

1. What is the Big Bang, and how do we know about it? What processes occurred. When was it?
2. What is the process by which heavy atoms are created in our Universe? Why did these have to take place before Earth formed? How did these materials end up here?
3. Modern Earth science involves a merging of uniformitarianism and catastrophism. What are these ideas? When did they emerge? How do they affect ideas of geology and evolution?
4. The Earth has suffered bombardment from its inception. What major events are associated with large impacts? Has this been uniform in time? What is effect on evolution? What is impact frustration?
5. How unique is the Earth likely to be in the Universe? How unique is life on the Earth likely to be? What are some 'lucky' circumstances for our planet?
6. How/when did the Moon form? Where do our oceans/atmosphere come from?
7. What do you know about the K-T Extinction? What scientific ideas do we have for how dinosaurs disappeared? Is it possible dinosaurs could have survived to today or did evolution ensure their extinction?
8. How do we know how old the Earth is? How do geologists measure time in the rocks? What are the ideas underlying Relative Time? What is the basis of Absolute Time?
9. What are the major domains of life? What is the common ancestor? What are Archae, Bacteria and Eukaryotes? What is the endosymbiotic hypothesis? What is the progression of life on Earth? How does life form; what are the key building blocks, what are the key metabolic pathways?
10. What is the Snowball Earth Hypothesis? Evidence, processes?

Key to scoring well on multiple-choice exams: Pace yourself; go through quickly to answer easy questions. Read questions carefully. Use logic to eliminate unlikely answers. Mark your scantron clearly, and do NOT bend it. To save time, you can fill in the bubbles (#2 PENCIL!) YOUR LAST/FIRST NAME and your 7-digit STUDENT ID NUMBER on the PARSCORE form. Do not fill in phone number. There will be 3 versions of the test; when you receive the test, note the version and fill in the corresponding bubble under TEST FORM on the ParSCORE.
EXAMPLE QUESTIONS FROM PREVIOUS YEAR EXAM

EART 2 EARTH CATASTROPHES QUIZ #1 - The first of 3 exams, each providing 25% of total points in the class. ALL ANSWERS ARE TO BE ENTERED ON THE ParSCORE SHEET. MAKE SURE YOU FILL IN THE BUBBLES FOR YOUR LAST/FIRST NAME, AND YOUR 7-DIGIT STUDENT ID ON THE SCANTRON SHEET. ALSO, FILL IN THE TEST FORM BUBBLE FOR THE TEST FORM NOTED BELOW. TOTAL NUMBER OF POINTS IS 100. 1 point for each question answered correctly. Read the questions carefully, as some are a bit tricky. No books, no notes, no discussion, no sharing. At end of exam turn in BOTH this test sheet and your answer sheet at the front of class. GOOD LUCK!

TEST FORM A

1) Which of these is not one of the laws of Uniformitarianism as advocated by Charles Lyell? a) Uniformity of Direction  b) Uniformity of Rate  c) Uniformity of Laws  d) Uniformity of Process
2) Catastrophic processes and Uniformitarian processes both play essential roles in Earth's history. a) True  b) False
3) Which of the following was a key social development encouraging intellectual advance by the Greeks: a) Olympics  b) leisure time due to agriculture  c) hunting  d) metallurgy
4) The Scientific Method includes all but which of the following: a) observation  b) hypotheses  c) testing  d) faith
5) We can estimate the bulk composition of the Solar Nebula best by analyzing the spectrum of light from the Sun. a) True  b) False
6) Undifferentiated meteorites provide an estimate of the bulk composition of the heavy materials in the Earth. a) True  b) False
7) If you compare Solar Abundances with Chondritic Meteorite Abundances, you find a close correspondence in relative amounts for all but which of the following: a) Magnesium  b) Iron  c) Aluminum  d) Helium
8) Distant galaxies are spectroscopically reddened because they are moving toward our galaxy (The Milky Way) at large velocities that make them appear to glow hotter. a) True  b) False