**QR-1 Introduction to Earth Science – 42 points**

**Using separate pieces of paper, answer the following questions** and **STAPLE** your completed answers with your **NAME** and Lecture class you are currently attending.

1. **Overview of the Chapter: (6 points)**
2. Before reading the chapter, write down what you know about earth science from prior experiences.
3. Write down 3 questions of your own that you want to know about earth science.
4. Look through the chapter and find 5 figures or diagrams that capture your interest, and briefly describe (paraphrase) what each figure/diagram is showing.
5. **Chapter Vocabulary Words (10 points):**

It is extremely crucial that you understand the meaning of various vocabulary words to gain full comprehension of the chapter’s content. Briefly define each vocabulary term, **IN YOUR OWN WORDS,** found at the end of the chapter. Use a separate pieces of paper.

1. **Chapter Questions 2 pts each / -10 pts if the student does not answer the selected question :**
2. List the science disciplines that make up Earth science, and provide a brief description of each discipline.
3. Name the two broad subdivisions of geology and distinguish between them.

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1. List the basic steps followed in many scientific investigations and define the difference

 between a scientific hypothesis and scientific theory.

1. How old is the Earth --- at least what scientists believe?
2. List the inner and outer planets and describe the basic differences in size and composition.

7. How much of the Earth’s surface is covered by water, and how much of the planet’s total

 water supply do oceans represent.

1. How is the earth define in terms of a “system” Describe each system (open, closed and isolated) and decide what system represents earth.
2. List and briefly define the four “open-system” spheres that constitute our environment.
3. How are earth processes explained using positive and negative feedback mechanisms?
4. Contrast positive and negative feedback mechanisms. Provide an example illustrating a

 situation of a positive/negative feedback mechanism.

1. Why is earth considered a unique planet apart from the remaining planets in our solar system?

 13. Draw a cross-sectional view of the Earth’s interior and label the various layers with their

 corresponding densities. What accounts for the type of density distribution observed in the

 Earth’s interior?