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Mr. Hunter
04/09/2013
Chapter 14
Exam Review Questions
NAME _____ DATE _____ PER# _____

1. Biogenesis can be defined as _____ pg. 279
2. Spontaneous generation can be defined as _____ pg. 279
3. An isotope of an element has _____ a different number of _____
4. One of the observations that led people to think that life could arise from nonliving things was that _____ observed by Redi pg. 279
5. The purpose of the nesting in Redi's experiment was to prevent _____ pg. 279
6. Describe the experimental group in Spallanzani's experiment _____ pg. 280
7. How did Spallanzani's opponents disagree with his conclusion that microorganisms from the air contaminated the boiled meat broth? Pg. 280
8. What was the function of the In Pasteur's experiment, the fraction of the curved necked flasks in Pasteur's experiment? Pg. 281
9. Which scientist conclusively demonstrated that the principle of spontaneous Generation was not correct? Pg. 281
10. How do scientists theorize that the Earth formed? Pg. 282
11. The age of the Earth is estimated to be _____ pg. 282
12. Sulfur has an atomic number of 16. Therefore, the isotope sulfur-35 has _____ protons and _____ neutrons
13. When performing radioactive dating scientists measure the _____ pg. 283
14. Carbon-14 dating is useful for estimating the age of _____ pg. 284
15. Determining the age of a rock by comparing relative proportions of its radioactive isotopes is called _____ pg. 282-283
16. The total number of protons and neutrons in the nucleus is the _____ pg. 282
17. A half-life can be defined as _____ pg. 283
18. Before life arose on this planet, what gas was present in the atmosphere? _____ pg. 284-285
19. What type of organic molecules were Miller and Urey able to produce in their 1953 experiment? _____ pg. 285
20. Thomas Cech found a type of RNA that can act as a catalyst in some chemical reactions. What did he call this type of RNA molecule? _____ pg. 288
21. Which of the following is true of microphores and living cells? _____ pg. 286
22. Anaerobic respiration requires what type of gas to be present? _____ pg. 286-289
23. Anaerobic respiration may have protected early unicellular organisms from damage by _____ pg. 286-289
24. What role did ozone play in the evolution of early life on this planet? Pg. 289

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