

Exam

Name \_\_\_\_\_

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

- 1) Organisms made up of one cell are said to be \_\_\_\_\_. 1) \_\_\_\_\_

Answer: unicellular

Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 2) According to the Health Watch essay, The Growing Threat of Antibiotic-Resistant Bacteria, which of the following is true? 2) \_\_\_\_\_

- A) Because of the indiscriminate use of antibiotics in medicine and society, some bacterial strains have now become less resistant to almost all currently existing antibiotics.
- B) Antibiotics should be prescribed to treat viral infections such as the common cold.
- C) Consumers should not support scientific research that will lead to the development of new antibiotics.
- D) Consumers should decrease the use of antibacterial hand creams and soaps instead of prescription antibiotics since these products are less likely to encourage the growth of resistant bacteria.
- E) Antibiotics only kill harmful bacteria.

Answer: D

Diff: 0 Type: MC

- 3) Which of the following is a correct statement regarding metabolism? 3) \_\_\_\_\_

- A) Plants get the raw materials they need for life processes entirely from air.
- B) Cells maintain life through the breakdown of molecules and energy by chemical and physical processes.
- C) Animals use energy obtained directly from the sun and chemicals obtained from plants, other animals, air, and water.
- D) Cells do not require energy to change molecules from one form to another.
- E) Few living organisms require raw materials and a constant source of energy.

Answer: B

Diff: 0 Type: MC

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Your text lists several criteria that define living organisms; these are listed on the right. Match each to its example.

- 4) Skin cells, like the bacteria living on human skin, give rise to new individual cells. A) Living things grow and reproduce. 4) \_\_\_\_\_

Answer: A

Diff: 0 Type: MA

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

- 5) The application of scientific knowledge to improve the condition of humans is known as 5) \_\_\_\_\_

Answer: technology

Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 6) Which of the following statements is FALSE? 6) \_\_\_\_\_
- A) Knowledge gained through the scientific method can be used to predict the natural world.
  - B) Scientists use the scientific method to gain knowledge about the natural world.
  - C) Because scientific knowledge is empirical, it cannot be tested.
  - D) Science is a process.
  - E) The scientific method involves many different ways of obtaining information.

Answer: C

Diff: 0 Type: MC

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Each of the following terms is related to the scientific process. Match each to its description.

- 7) a hypothesis that has been repeatedly tested and found to be true A) theory 7) \_\_\_\_\_

Answer: A

Diff: 0 Type: MA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 8) Which of the following is a true statement? 8) \_\_\_\_\_
- A) Organisms composed of many cells are unicellular.
  - B) Cells arise spontaneously from nonliving chemical elements.
  - C) Cells are incapable of maintaining homeostasis because they are too small.
  - D) All living things are made up of at least one cell.
  - E) Molecules are considered to be the smallest unit capable of exhibiting all the characteristics of life.

Answer: D

Diff: 0 Type: MC

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Each of the following terms is related to the scientific process. Match each to its description.

- 9) a possible explanation to a proposed problem A) hypothesis 9) \_\_\_\_\_

Answer: A

Diff: 0 Type: MA

ESSAY. Write your answer in the space provided or on a separate sheet of paper.

- 10) Explain how the characteristics of bipedalism and opposable thumbs are advantageous to humans.

Answer: Bipedalism frees the hands and forearms for carrying items, tools, food, and even children. Coupled with opposable thumbs, these features have undoubtedly contributed to better defense against predators, increased utilization of resources, and even advanced communication through gesturing and written symbols.

Diff: 0 Type: ES

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Each of the following terms is related to the scientific process. Match each to its description.

- 11) the process of testing ideas and gaining information about the natural world

A) scientific method

11) \_\_\_\_\_

Answer: A

Diff: 0 Type: MA

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

- 12) Recent research indicates that humans are not the only mammal capable of standing upright and walking on two legs.

12) \_\_\_\_\_

Answer: True ☒ False

Diff: 0 Type: TF

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 13) In the Domain classification system, which group of organisms contains multicellular photosynthesizers?

13) \_\_\_\_\_

A) Plantae

B) Eukarya

C) Bacteria

D) Monera

Answer: B

Diff: 0 Type: MC

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match each kingdom to its description.

- 14) multicellular, eukaryotic organisms that convert energy from the sun into food; tallest organisms on the planet

A) Plantae

14) \_\_\_\_\_

Answer: A

Diff: 0 Type: MA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 15) Which is the lowest level of biological organization that evolutionary change can occur?

15) \_\_\_\_\_

A) population

B) community

C) cell

D) organism

Answer: A

Diff: 0 Type: MC

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

- 16) After years of experimentation and testing, it is possible to prove that a hypothesis is true, at which point it becomes absolute truth. 16) \_\_\_\_\_

Answer: True ☒ False

Diff: 0 Type: TF

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 17) The branch of science that studies living organisms and their life processes is 17) \_\_\_\_\_  
A) Chemistry B) Biology C) Physics D) Geology

Answer: B

Diff: 0 Type: MC

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

- 18) Manufacturers of dietary supplements are not required to report negative effects of the product to the U.S. Food and Drug Administration. 18) \_\_\_\_\_

Answer: True ☒ False

Diff: 0 Type: TF

- 19) Approximately 3.5 billion years ago, single-celled organisms arose from non-living chemical elements. 19) \_\_\_\_\_

Answer: ☒ True False

Diff: 0 Type: TF

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match each kingdom to its description.

- 20) Organisms are single-celled, lack membrane bound nuclei or other cellular components, and are found everywhere on the planet. A) Monera 20) \_\_\_\_\_

Answer: A

Diff: 0 Type: MA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 21) The mathematics of interpreting and organizing data is known as 21) \_\_\_\_\_  
A) differential equations.  
B) graphing.  
C) algebra.  
D) statistics.  
E) correlation and causation.

Answer: D

Diff: 0 Type: MC

- 22) Which group of organisms are thought to have given rise to plants and animals? 22) \_\_\_\_\_  
A) Archaea B) Monerans C) Protista D) Eukarya

Answer: C

Diff: 0 Type: MC

- 23) The Internet has been used as a rapid means to obtain information, including scientific ideas, but generally is less reliable than print media because 23) \_\_\_\_\_  
A) at present, the Internet is less regulated than broadcast and print media.  
B) individuals and/or groups may post information to promote their own personal interests rather ideas that have been tested through the scientific process.  
C) anyone can post "scientific" information, regardless of whether the information is misleading or not true.  
D) All of the above are correct.

Answer: D

Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

- 24) When data is presented in a graph, independent variables such as time or age should be plotted on the \_\_\_\_\_ (abscissa/ordinate). 24) \_\_\_\_\_

Answer: abscissa

Diff: 0 Type: SA

- 25) The process by which an individual makes a generalization after examining specific cases is \_\_\_\_\_ reasoning. 25) \_\_\_\_\_

Answer: inductive

Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 26) Peer review is essential to the scientific process because 26) \_\_\_\_\_  
A) the process immediately validates any hypotheses tested in the experiments.  
B) it tests hypotheses proposed by investigators.  
C) it ensures that the findings from experimentation are modified prior to publication.  
D) the process can lead to improvements in articles prior to being published.  
E) it is the primary means for informing other scientists of new information in the field.

Answer: C

Diff: 0 Type: MC

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Each of the following terms is related to the scientific process. Match each to its description.

- 27) making a generalization from knowledge gained from specific cases A) inductive reasoning 27) \_\_\_\_\_

Answer: A

Diff: 0 Type: MA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 28) Approaching new information with a questioning attitude and looking for evidence to support the claim involves 28) \_\_\_\_\_
- A) deductive reasoning.
  - B) skepticism.
  - C) inductive reasoning.
  - D) curiosity.
  - E) the process of predicting an outcome.

Answer: B

Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

- 29) A carefully planned and executed manipulation of the natural world used to test a prediction in the scientific method is a(n) \_\_\_\_\_. 29) \_\_\_\_\_

Answer: experiment

Diff: 0 Type: SA

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Your text lists several criteria that define living organisms; these are listed on the right. Match each to its example.

- |  |  |           |
|--|--|-----------|
| 30) Chemical analysis of a plant indicates that it is primarily composed of carbon, hydrogen, nitrogen, oxygen, sulfur, and phosphorous; these elements are generally lacking in most rocks. | A) Living things have a different molecular composition than nonliving things. | 30) _____ |
|--|--|-----------|

Answer: A

Diff: 0 Type: MA

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

- 31) The validity of a prediction in the scientific method is determined by experimentation or observation. 31) \_\_\_\_\_

Answer: ☒ True      False

Diff: 0 Type: TF

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 32) In science, graphs are often used to display data collected from an experiment. Which of the following is true regarding a graph? 32) \_\_\_\_\_
- A) Independent variables may include age or time.
  - B) Most graphs are plotted on three axes.
  - C) Graphs always involve plots of individual data points.
  - D) The dependent variable is plotted on the x-axis.
  - E) The horizontal axis is known as the ordinate.

Answer: A

Diff: 0 Type: MC

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

- 33) Plants obtain their energy directly from the sun and their raw materials from the soil, air, and water in their environment. 33) \_\_\_\_\_

Answer: ☒ True      False  
Diff: 0      Type: TF

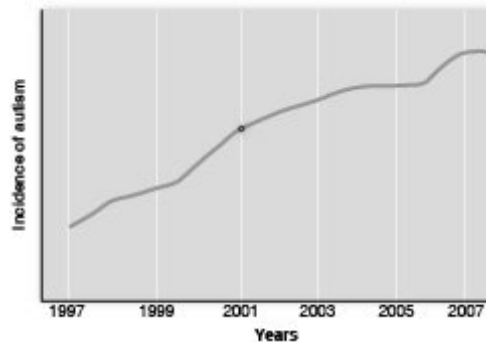
- 34) Scientific knowledge cannot prove or disprove the existence, or importance to us, of issues that fall outside of the natural world. 34) \_\_\_\_\_

Answer: ☒ True      False  
Diff: 0      Type: TF

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 35) Which of the following is a kingdom? 35) \_\_\_\_\_  
A) Eukarya      B) Bacteria      C) Archaea      D) Primates      E) Animalia

Answer: E  
Diff: 0      Type: MC



- 36) The graph above depicts the relative increase in autism in children from 1997 to 2007 living in California. In 2001, the additive thimerosal was removed from most childhood vaccines. Based on the information presented in the graph, what can be concluded about the hypothesis that thimerosal causes autism? 36) \_\_\_\_\_

- A) Prior to 2001, thimerosal clearly influenced the cases of autism in California.
- B) A sharp decrease in the cases of autism would be expected after 2001 if thimerosal was the causative agent of autism.
- C) Thimerosal, at the very least, contributes to the occurrence of autism as evidenced by the almost logarithmic increase in children with autism from 2001-2007.
- D) Thimerosal requires some other agent to help induce autism.
- E) The results of the study are inclusive.

Answer: B  
Diff: 0      Type: MC

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Your text lists several criteria that define living organisms; these are listed on the right. Match each to its example.

37) Certain blood vessels in humans will constrict or dilate in during intense exercise.

A) Living things maintain homeostasis.

37) \_\_\_\_\_

Answer: A

Diff: 0 Type: MA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

38) Which of the following is true regarding knowledge gained through scientific investigation?

38) \_\_\_\_\_

- A) This knowledge has resulted in less efficient sources of energy yet better health care.
- B) Scientific knowledge cannot be used to improve human life through technology.
- C) This information can be used to detect problems at an early stage and correct mistakes.
- D) This knowledge can be used to prove or disprove religious beliefs.
- E) Society as a whole generally ignores scientific information.

Answer: C

Diff: 0 Type: MC

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Your text lists several criteria that define living organisms; these are listed on the right. Match each to its example.

39) Many species of fish increase swimming activity when moving into colder waters.

A) Living things respond to their external environment.

39) \_\_\_\_\_

Answer: A

Diff: 0 Type: MA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

40) A farmer wants to improve crop yield in his fields by testing the effectiveness of a new pesticide available on the market. Which of the following is the best control for this experiment?

40) \_\_\_\_\_

- A) more water on the control field than the experimental field
- B) a higher concentration of new pesticide used on the control field than the experimental field
- C) less new pesticide used on the control field than the experimental field
- D) more shade on the control field than the experimental field
- E) no new pesticide used on the control field; new pesticide used only on the experimental field

Answer: E

Diff: 0 Type: MC

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

41) Our society places a very high value on human life, and thus would not permit humans to be tested experimentally if the end result is deliberate harm.

41) \_\_\_\_\_

Answer: True ☒ False

Diff: 0 Type: TF

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 42) How does scientific information in peer-reviewed journals differ from that in newspapers? 42) \_\_\_\_\_
- A) Information is not approved by other scientists before its publication.
  - B) Information is more technical; readers usually require a background in the field in order to understand the article.
  - C) Articles often include political, ethical, and economic ramifications of the scientific findings.
  - D) The article is written by a reporter, not the researcher.
  - E) Information is less in-depth and easily understood by the average reader.

Answer: B

Diff: 0 Type: MC

- 43) Humans possess several characteristics that, when taken together, differentiate them from other organisms. These characteristics include 43) \_\_\_\_\_
- A) capacity for complex language.
  - B) bipedalism.
  - C) large brain relative to body mass.
  - D) opposable thumbs.
  - E) All of the above are correct.

Answer: E

Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

- 44) A properly designed controlled experiment should include both an \_\_\_\_\_ group and a \_\_\_\_\_ group. 44) \_\_\_\_\_

Answer: experimental, control

Diff: 0 Type: SA

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match each kingdom to its description.

- 45) All consume other organisms for energy; are multicellular eukaryotes; members range from simple sponges to complex primates like humans. A) Animalia 45) \_\_\_\_\_

Answer: A

Diff: 0 Type: MA

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

- 46) The four organic molecules found in all living systems are carbohydrates, nucleic acids, lipids, and \_\_\_\_\_. 46) \_\_\_\_\_

Answer: proteins

Diff: 0 Type: SA

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Your text lists several criteria that define living organisms; these are listed on the right. Match each to its example.

47) Through years of exposure, many insects have become resistant to insecticides used in agriculture.

A) Populations of living things evolve.

47) \_\_\_\_\_

Answer: A

Diff: 0 Type: MA

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

48) The ability to stand upright and walk on two legs is \_\_\_\_\_.

48) \_\_\_\_\_

Answer: bipedalism

Diff: 0 Type: SA

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Your text lists several criteria that define living organisms; these are listed on the right. Match each to its example.

49) All animals consume plants, animals or other organisms in their environment.

A) Living things require energy and raw materials.

49) \_\_\_\_\_

Answer: A

Diff: 0 Type: MA

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

50) "Blind" experiments are designed to reduce the possibility that the outcome of an experiment might be affected by the power of suggestion. 50) \_\_\_\_\_

Answer: ☒ True ☐ False

Diff: 0 Type: TF

51) Special interest groups are not permitted to post information as "science" on the internet unless it has undergone peer review. 51) \_\_\_\_\_

Answer: ☐ True ☒ False

Diff: 0 Type: TF

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

52) A(n) \_\_\_\_\_ is a tentative statement about the natural world that can lead to a testable deduction. 52) \_\_\_\_\_

Answer: hypothesis

Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 53) Which of the following best describes the evolutionary advantage of bipedalism? 53) \_\_\_\_\_
- A) allows an organism to have precise control over the action of the thumb and fingers
  - B) increases the chance that an organism can communicate through the written word
  - C) frees the hands for carrying objects
  - D) in early humans, allowed for complex motions associated with the use of tools
  - E) results in improved eye-hand coordination

Answer: C

Diff: 0 Type: MC

ESSAY. Write your answer in the space provided or on a separate sheet of paper.

- 54) While out on a trip to a remote location in South America, you discovered an organism either living on or simply residing on a beautiful tropical flower. The problem is you have no idea what the identity is of the organism. What features or characteristics of the new organism should you look for to at least be able to determine the kingdom it belongs to?

Answer: By observing whether the creature feeds on other organisms, you can potentially determine if it is an animal. Typically organisms that have a green appearance contain chlorophyll, which suggests that it undergoes photosynthesis, a feature of Plants and Protists.

Diff: 0 Type: ES

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

- 55) Humans can grasp objects between their thumbs and fingers because the thumb is \_\_\_\_\_.

Answer: opposable

Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 56) Which of the following statements regarding scientific theory is FALSE? 56) \_\_\_\_\_
- A) A scientific theory explains scientific facts with a high degree of reliability.
  - B) As new information is gained over time, scientific theories can be modified.
  - C) The highest status that a hypothesis can achieve is becoming a scientific theory.
  - D) A hypothesis that has been repeatedly tested over time, and found to be true, usually becomes a scientific theory.
  - E) A scientific theory is a speculation as to the possible outcome of an experiment.

Answer: E

Diff: 0 Type: MC

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Each of the following terms is related to the scientific process. Match each to its description.

- 57) when testing a prediction, this accounts for all possible variables except the variable being considered

A) controlled experiment

57) \_\_\_\_\_

Answer: A

Diff: 0 Type: MA

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

- 58) Since dietary supplements have met the same government regulations as prescription drugs, they are a safe and effective treatment for specific diseases. 58) \_\_\_\_\_

Answer: True ☒ False

Diff: 0 Type: TF

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Your text lists several criteria that define living organisms; these are listed on the right. Match each to its example.

- 59) Plants growing in flower beds around your house will close leaf pores during the hot hours of the day. A) Living things respond to their external environment. 59) \_\_\_\_\_

Answer: A

Diff: 0 Type: MA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 60) One of the most common ways to get information out to a wide audience in the least amount of time regarding "hot" topics in science is by using 60) \_\_\_\_\_  
A) science magazines.  
B) books.  
C) general interest news magazines or newspapers.  
D) peer-reviewed journals.  
E) the Discovery channel on television.

Answer: C

Diff: 0 Type: MC

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

- 61) Because the natural world includes all energy and matter, it also includes all living organisms. 61) \_\_\_\_\_

Answer: ☒ True False

Diff: 0 Type: TF

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Each of the following terms is related to the scientific process. Match each to its description.

- 62) the application of general principles to specific cases A) deductive reasoning 62) \_\_\_\_\_

Answer: A

Diff: 0 Type: MA

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

- 63) The chemical and physical processes that are involved in energy and molecular transformations in living organisms are collectively termed \_\_\_\_\_. 63) \_\_\_\_\_

Answer: metabolism

Diff: 0 Type: SA

64) Monerans are classified into two domains: \_\_\_\_\_ and \_\_\_\_\_.

64) \_\_\_\_\_

Answer: Bacteria, Archaea

Diff: 0 Type: SA

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match each kingdom to its description.

65) Some members are unicellular while others are multicellular eukaryotes; some, but not all, undergo photosynthesis; protozoa and algae are common examples of the kingdom.

A) Protista

65) \_\_\_\_\_

Answer: A

Diff: 0 Type: MA

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

66) Not only does science involve gaining knowledge about the natural world, it also involves the process of obtaining that knowledge.

66) \_\_\_\_\_

Answer: ☒ True ☐ False

Diff: 0 Type: TF

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

67) The process by which living organisms maintain a fairly constant internal environment despite changes in the external environment is known as

67) \_\_\_\_\_

- A) evolution.
- B) homeostasis.
- C) biology.
- D) metabolism.
- E) chemistry.

Answer: B

Diff: 0 Type: MC

68) Which of the following best describes the proper sequence of steps involved in the scientific method?

68) \_\_\_\_\_

- a. state hypothesis
- b. observe
- c. experiment
- d. support or disprove hypothesis
- e. form a prediction

A) a, b, c, e, d      B) b, a, d, e, c      C) a, b, c, d, e      D) b, a, e, c, d      E) e, b, a, c, d

Answer: D

Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

69) The first step of the scientific method is \_\_\_\_\_.

69) \_\_\_\_\_

Answer: observation

Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

70) "Molecules of life" include all of the following

70) \_\_\_\_\_

- A) lipids and proteins only.
- B) water, proteins, lipids, nucleic acids, carbohydrates.
- C) proteins, saturated fats, monosaccharides but not polysaccharides.
- D) non-sugar carbohydrates, proteins, lipids, water.
- E) any non-carbon base molecule.

Answer: B

Diff: 0 Type: MC

ESSAY. Write your answer in the space provided or on a separate sheet of paper.

71) You have been asked to test the effectiveness of drug X in preventing the growth of certain types of cancerous cells. Your responsibilities include designing and executing the experimental approach. After completing the study, you realize that no control variables were defined. How will this impact your drug study?

Answer: Failure to define the control variables implies that many unintended factors were left to change with the application of the drug. This would prevent you from determining whether any inhibition of the cancerous cells was due to drug X or some other factor that you did not control. The result is the study would have to be repeated using appropriate controlled variables.

Diff: 0 Type: ES

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

72) Factors that are manipulated during an experimental procedure are called \_\_\_\_\_.

72) \_\_\_\_\_

Answer: variables

Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

73) Which of the following taxa (subgroups used in classification) applies to humans?

73) \_\_\_\_\_

- A) Protista
- B) Mammals
- C) Prokarya
- D) Invertebrates
- E) Monera

Answer: B

Diff: 0 Type: MC

74) Which of the following is correct in terms of level of organization from least to most complex?

74) \_\_\_\_\_

- A) cells, tissue, organ, organ system, organism
- B) atoms, cells, organism, organ systems
- C) atoms, tissue, organs, population
- D) tissue, organ systems, population, cells

Answer: A

Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

75) Information that takes the form of a testimonial is considered to be \_\_\_\_\_, not scientific.

75) \_\_\_\_\_

Answer: anecdotal

Diff: 0 Type: SA

76) A group of tissues working together for a common purpose is known as a(n) \_\_\_\_\_. 76) \_\_\_\_\_

Answer: organ

Diff: 0 Type: SA

77) A group of similar organisms capable of interbreeding and producing fertile offspring is a \_\_\_\_\_. 77) \_\_\_\_\_

Answer: species

Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

78) The criteria for classification of animals, plants, and fungi are based largely on 78) \_\_\_\_\_

- A) the structure or body plan of the organism.
- B) the mode of nutrition of the organism.
- C) the organism's life cycle.
- D) All of the above are correct.

Answer: D

Diff: 0 Type: MC

79) According to a recent study of nearly 140,000 women who were enrolled in the Women's Health Initiative, women who breast-fed their babies had a lower risk of developing heart disease and diabetes later in life than women who did not breast-feed their babies. These research findings are an example of 79) \_\_\_\_\_

- A) Hypothesis testing
- B) Skepticism
- C) Deductive reasoning
- D) Correlation
- E) Causation

Answer: D

Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

80) Data obtained from scientific experiments can best be displayed in a \_\_\_\_\_, which can be used to explain the results of an experiment as well. 80) \_\_\_\_\_

Answer: graph

Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

81) A student needs information from the National Institutes of Health, a government agency. Which of the following endings should he or she look for in the Internet address? 81) \_\_\_\_\_

- A) nih
- B) org
- C) com
- D) gov
- E) edu

Answer: D

Diff: 0 Type: MC

82) Unicellular organisms are believed to have formed from nonliving elements approximately \_\_\_\_\_ years ago. 82) \_\_\_\_\_

- A) 3.5 billion
- B) 5 trillion
- C) 200,000
- D) 2.5 billion
- E) 1 million

Answer: A

Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

83) A \_\_\_\_\_ is a higher classification system of organisms that encompasses kingdoms.

83) \_\_\_\_\_

Answer: domain

Diff: 0 Type: SA

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match each kingdom to its description.

84) are responsible for breaking down the bodies of dead organisms, thereby releasing nutrients back into the environment

A) Fungi

84) \_\_\_\_\_

Answer: A

Diff: 0 Type: MA