Test Bank for Good Earth Introduction to Earth Science 5th McConnell

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ANSWERS ARE LOCATED IN THE SECOND PART OF THIS DOCUMENT

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

1) Scientific results are unpredictable and are mainly determined by the personal views of the scientists.

1) _____

- ◎ true
- ◎ false

Question Details
Section : 01.03 Doing Science
Topic : Characteristics of Science: Good and Bad
Accessibility : Keyboard Navigation
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Gradable : automatic
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2) Once a scientific explanation has been established it never needs to be changed.

2) _____

- ◎ true
- ◎ false

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Topic : Characteristics of Science: Good and Bad
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3) A hypothesis is supported by more scientific observation and research than a theory.

3) _____

- ◎ true
- ◎ false

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4) Science provides answers to ethical dilemmas.

4) _____

◎ true
◎ false

Question Details
Topic : Characteristics of Science: Good and Bad
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Section : 01.02 The Scope of Earth Science
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5) Theories are developed so that they can not be found to be false.

5) _____

◎ true
◎ false

Question Details
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6) Most natural hazards such as earthquakes, tornadoes, and hurricanes can be prevented.

6) _____

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◎ true
◎ false

Question Details
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7) Social factors affecting decisions on the environment are more difficult to quantify than physical or chemical factors.

7) _____

◎ true
◎ false

Question Details
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Gradable : automatic
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8) We can adjust to natural hazards.

8) _____

◎ true
◎ false

Question Details
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9) Evacuation of a city in advance of a hurricane would be an example of prevention.

9) _____

◎ true
◎ false

Question Details
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Gradable : automatic
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10) Inductive reasoning uses specific observations to reach a general conclusion.

10) _____

◎ true
◎ false

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

11) In the context of science, how would you classify the following statement? Iridium is present in relatively high concentrations in 65 million year old rock layers in several different locations on Earth.

11) _____

A) theory
B) hypothesis
C) observation

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12) Suppose you measure the flow of water from a drinking fountain 10 times and all your measurements agree very closely to one another, but differ significantly from the accepted flow value. Which of the following statements best describes your empirical data?

12) _____

A) they are accurate but not precise
B) they are precise but not accurate
C) they are not accurate nor precise

Question Details
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Section : 01.03 Doing Science
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Gradable : automatic
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13) During orientation you learn that all classrooms on campus are air conditioned. You decide to bring a sweatshirt to class even on the hottest days. What type of reasoning did you use?

13) _____

A) inductive
B) deductive
C) neither inductive nor deductive—the decision did not involve science

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Gradable : automatic
Chapter : 01 Introduction to Earth Science

14) Which statement best describes science?

14) _____

A) Science is a large body of factual knowledge.
B) Science is the process of discovery.
C) Science is the quest for ultimate truth.

Question Details
Accessibility : Keyboard Navigation
Bloom's : Level 1. Remember
Gradable : automatic
Section : 01.02 The Scope of Earth Science
Topic : The Scope of Earth Science
Chapter : 01 Introduction to Earth Science

15) Which of the following is not a characteristic of scientific explanations?

15) _____

A) they are tentative
B) they are able to answer all questions
C) they are limited by technology
D) they are based on empirical observations

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16) Which method of science reasoning uses specific observations to draw general conclusions?

16) _____

A) inductive
B) deductive
C) logical

Question Details
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Topic : Characteristics of Science: Good and Bad
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Chapter : 01 Introduction to Earth Science

17) Which process of a scientifically enlightened citizen deals with being aware that other's actions on Earth affect us and we affect others?

17) _____

A) know
B) care
C) act

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Gradable : automatic
Chapter : 01 Introduction to Earth Science

18) Which role of earth scientists most directly relates to forecasting hurricane paths?

18) _____

A) finding and sustaining earth resources
B) protecting the health of the environment
C) ensuring the future of human life
D) protecting against natural hazards

Question Details
Accessibility : Keyboard Navigation
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Gradable : automatic
Chapter : 01 Introduction to Earth Science

19) Which of the following statements does not describe some aspect of scientific investigation?

19) _____

A) Observing that much of the water along the beach is no longer where it should be.
B) Reasoning that fair weather conditions do not normally result in rapid drops in ocean levels so something extraordinary is occurring.
C) Hypothesizing that the water would likely come back in as fast as it went out.
D) Concluding that this rising water process had to do with sinking land levels rather than rising water levels.
E) All of these choices are correct.

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20) Consider the following statement and choose which response best applies to it.

"Over the last two centuries, there has been a marked decrease in the number of pirates in the world at the same time that global temperatures are rising. Therefore, the lack of pirates must be linked to global warming."

20) _____

A) This is an example of attacking the scientists doing the research, rather than the science.
B) This is an example of flawed cause and effect reasoning.
C) This is an example of poor statistics, as the population size covers only 200 years of data.
D) This is an example of arguing a point on the basis of authority.
E) All of these choices are correct.

Question Details
Bloom's : Level 2. Understand
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21) If you were asked to describe some of the useful things that earth scientists might be involved in, which of the following would not be applicable?

21) _____

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A) Helping the public understand which areas and populations might be susceptible to earthquakes.

B) Trying to understand what causes flooding so it can be prevented.

C) Trying to predict when natural hazards might occur by using secret methods.

D) Trying to predict the weather so farmers might know when to plant crops.

E) All of these choices are correct.

Question Details
Bloom's : Level 2. Understand
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Section : 01.04 Science and Society
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22) In the context of science, how would you classify the following statement? Dinosaurs became extinct because a large asteroid collided with Earth.

22) _____

A) Theory

B) Hypothesis

C) Observation

Question Details
Section : 01.03 Doing Science
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23) Which component of the earth system relates to the solid earth?

23) _____

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A) Hydrosphere
B) Biosphere
C) Geosphere
D) Atmosphere
E) Exosphere

Question Details
Accessibility : Keyboard Navigation
Bloom's : Level 1. Remember
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Topic : The Scope of Earth Science
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24) Which part of the earth system includes plants and animals?

24) _____

A) Atmosphere
B) Biosphere
C) Hydrosphere
D) Solid earth

Question Details
Accessibility : Keyboard Navigation
Bloom's : Level 1. Remember
Gradable : automatic
Section : 01.02 The Scope of Earth Science
Topic : The Scope of Earth Science
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25) Which part of the earth system includes ice on Antarctica?

25) _____

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A) Atmosphere
B) Biosphere
C) Hydrosphere
D) Solid earth

Question Details
Accessibility : Keyboard Navigation
Bloom's : Level 1. Remember
Gradable : automatic
Section : 01.02 The Scope of Earth Science
Topic : The Scope of Earth Science
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26) In what context (why) was the 2001 Hutchinson, Kansas gas leak explosion discussed in Chapter 1?

26) _____

A) To illustrate the need for more safety measures at gas storage facilities.
B) To illustrate the process of science in an actual situation.
C) To contrast the characteristics of "good" and "bad" science.

Question Details
Section : 01.03 Doing Science
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27) What distinguishes science from non-science?

27) _____

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A) Science is based on empirical observations.
B) Science is based on unchanging facts.
C) Science is based solely on experiments.

Question Details
Bloom's : Level 2. Understand
Section : 01.03 Doing Science
Topic : Characteristics of Science: Good and Bad
Accessibility : Keyboard Navigation
Gradable : automatic
Chapter : 01 Introduction to Earth Science

28) A hypothesis can be improved or rejected based on which of the following?

28) _____

A) new data
B) new observations
C) experiments
D) Any of the choices are correct.

Question Details
Section : 01.03 Doing Science
Topic : Characteristics of Science: Good and Bad
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29) Which of the following is a characteristic of empirical observations?

29) _____

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A) They can be measured by others.
B) They are observations that will not change.
C) They represent ethical interpretations.

Question Details
Bloom's : Level 2. Understand
Section : 01.03 Doing Science
Topic : Characteristics of Science: Good and Bad
Accessibility : Keyboard Navigation
Gradable : automatic
Chapter : 01 Introduction to Earth Science

30) Why was the mid-continent earthquake story discussed in Chapter 1?

30) _____

A) It illustrated characteristics of bad science.
B) It illustrated the characteristics of good science.
C) It illustrated the characteristics of the limitations of science.

Question Details
Bloom's : Level 2. Understand
Section : 01.03 Doing Science
Topic : Characteristics of Science: Good and Bad
Accessibility : Keyboard Navigation
Gradable : automatic
Chapter : 01 Introduction to Earth Science

31) Why might the era we live in today one day be called the "Anthropocene"?

31) _____

A) Because humans are the dominant life form on Earth at present.
B) Because humans population is increasing rapidly.
C) Because humans are causing significant changes to the planet.

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32) Which of the following scenarios is an example of inductive reasoning?

32) _____

A) Ben went fishingand caught 12 smallmouth bass with minnows, and only 2 with worms. Benconcludes that most fish prefer eating minnows instead of worms.

B) Ben read a magazine article that said most fish prefer to eat minnowsinstead of worms. Ben concludes that smallmouth bass probably also prefereating minnows instead of worms.

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33) Which of the following scenarios is an example of deductive reasoning?

33) _____

A) This year the RiverCity Roosters football team has won five home games but zero away games.Therefore, the River City Roosters cannot win away games.

B) The River CityRoosters never win away games. Today they are playing an away game, so theywill lose.

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Question Details
Section : 01.03 Doing Science
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Gradable : automatic
Bloom's : Level 4. Analyze
Chapter : 01 Introduction to Earth Science

34) Which of the following natural hazards are we most likely to try to prevent?

34) _____

A) Floods
B) Tornados
C) Hurricanes
D) Volcanic Eruptions

Question Details
Accessibility : Keyboard Navigation
Bloom's : Level 1. Remember
Section : 01.04 Science and Society
Topic : Physical, Chemical, Social and Cultural Aspects of Earth Science
Gradable : automatic
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SECTION BREAK. Answer all the part questions.

35) Pluto was discovered in 1930, becoming the 9th planet in the solar system. As telescopes improved, other Sun-orbiting objects were discovered. Some of those were even larger than Pluto. By 2005, it was becoming apparent that many more objects would soon be discovered and that the number of planets in the Solar System could swell to as many as 50. After much debate, scientists in the International Astronomical Union (IAU) concluded that Pluto and the other similar celestial bodies orbiting the Sun should be classified as dwarf planets. Since a planet must clear the space surrounding its orbit, our Solar system now has 8 planets.

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Topic : Characteristics of Science: Good and Bad

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35.1) Why weren't the other Pluto-like objects discovered earlier?

35.1) _____

A) Scientific explanations are tentative.
B) Scientific hypotheses are falsifiable.
C) Scientific explanations make predictions.
D) Science is limited by technology.

Question Details
Section : 01.03 Doing Science
Topic : Application of Earth Science
Gradable : automatic
Bloom's : Level 3. Apply
Chapter : 01 Introduction to Earth Science

35.2) Pluto still exists, so how do you explain that we now officially only have 8 planets in our solar system?

35.2) _____

A) Scientific explanations are tentative.
B) Science is based on empirical observations.
C) Scientific explanations make predictions.
D) Science is limited by technology.

Question Details
Section : 01.03 Doing Science
Topic : Application of Earth Science
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35.3) Why are scientists expected to publish the data they use to make discoveries?

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35.3) _____

A) Scientific explanations are tentative.
B) Science is based on empirical observations.
C) Scientific explanations make predictions.
D) Science is limited by technology.

Question Details
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36) A group of concerned citizens was worried that their local water supply might be contaminated with naturally occurring arsenic. They decided to purchase a home arsenic monitoring kit and tested well water in their local area. After analyzing the data (shown below), the citizens wrote a letter to the editor of a local newspaper arguing that their data proved that the water supply is contaminated. They demanded immediate government action to address the problem. The local water board again tested the wells using their official water testing instruments and found average concentrations of 8.1 +/- 0.2 micrograms per liter. Assume the water board's reported measurements are the accepted value. The maximum permitted level of arsenic in water supplies is 10 micro-grams per liter.

Well	Sample 1	Sample 2	Sample 3	Sample 4	Average
1	12.0	14.0	7.0	8.0	10.3 +/- 3.3
2	16.0	18.0	10.0	14.0	14.5 +/- 3.4
3	3.0	23.0	5.0	19.0	12.5 +/- 10.0
4	7.0	7.0	21.0	21.0	14 +/- 8.1
Concentrations in micro-grams per liter				Average	12.8 +/- 6.4

Question Details
Topic : Physical, Chemical, Social and Cultural Aspects of Earth Science

36.1) Which of the earth-system scientist's roles is best illustrated by this paragraph?

36.1) _____

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A) Alerting the public of natural hazards
B) Use of earth resources
C) Health of the environment
D) Informing society

Question Details
Section : 01.04 Science and Society
Topic : Physical, Chemical, Social and Cultural Aspects of Earth Science
Gradable : automatic
Bloom's : Level 4. Analyze
Chapter : 01 Introduction to Earth Science

36.2) Which earth system interaction is illustrated in this passage?

36.2) _____

A) Hydrosphere toatmosphere
B) Hydrosphere tobiosphere
C) Geosphere tohydrosphere
D) Geosphere toatmosphere

Question Details
Topic : Physical, Chemical, Social and Cultural Aspects of Earth Science
Gradable : automatic
Bloom's : Level 3. Apply
Section : 01.02 The Scope of Earth Science
Chapter : 01 Introduction to Earth Science

36.3) What is the most reasonable action for local government to officials to take in this situation?

36.3) _____

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A) Ignore the datacollected by the concerned citizens.
B) Test the watersamples using both testing methods.
C) Require the waterboard to test a third set of well samples.
D) Require the waterboard to create a plan to reduce arsenic levels in the well water.

Question Details
Topic : Physical, Chemical, Social and Cultural Aspects of Earth Science
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36.4) It is later revealed that several of the citizens' samples from Well 2 were likely contaminated prior to testing, but the citizens decided to include these samples in their final data set anyway. Which characteristic of bad science does this illustrate?

36.4) _____

A) Attacking thescientists, not the science.
B) Confusing cause andeffect.
C) Making useof bad statistics.
D) Creating an argument based upon authority.

Question Details
Section : 01.03 Doing Science
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37) Emission testing is required by federal law in areas that have had problems meeting health-based air quality standards. Such areas typically include industrialized urban areas and large cities. Supporters of this practice argue that all citizens benefit because vehicles with malfunctioning pollution control systems are identified. They also cite government data showing average failure rates of 10%. Critics of the testing argue that, of those vehicles that fail, 90% are vehicles 5 or more years old. A law has been placed on the ballot to save citizens money by no longer requiring vehicles less than 5 years old be tested unless they are obviously malfunctioning.

Question Details
Topic : Physical, Chemical, Social and Cultural Aspects of Earth Science

37.1) Suppose the law passed. What is likely to happen to air quality in those areas where testing is required?

37.1) _____

A) Air quality should improve a lot.
B) Air quality should decline a lot.
C) There should be little change to air quality.

Question Details
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37.2) Complete the following sentence: The new emissions testing law is based on _____ reasoning.

37.2) _____

A) deductive
B) inductive

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Section : 01.03 Doing Science
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38) The U.S. government Strategic Plan for the Climate Change Science Program (CCSP) has five major goals related to the role of earth scientists in society. 1) Improve knowledge of the Earth's past and present climate and environment, including its natural variability, and improve understanding of the causes of observed variability and change. 2) Improve quantification of the forces bringing about changes in the Earth's climate and related systems. 3) Reduce uncertainty in projections of how the Earth's climate and related systems may change in the future. 4) Understand the sensitivity and adaptability of different natural and managed ecosystems and human systems to climate and related global changes. 5) Explore the uses and identify the limits of evolving knowledge to manage risks and opportunities related to climate variability and change.

Question Details
Topic : Physical, Chemical, Social and Cultural Aspects of Earth Science

38.1) What hypothesis underlies these goals?

38.1) _____

A) Climate has changed in the past.
B) Climate will change in the future.
C) Climate will stay about the same.

Question Details
Section : 01.03 Doing Science
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38.2) How are these goals consistent with the characteristics of good science?

38.2) _____

A) They rely on scientific opinions.
B) They rely on accepted theories.
C) They rely on empirical evidence.

Question Details
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Topic : Characteristics of Science: Good and Bad
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38.3) Which of the earth-system scientist's roles is best illustrated by goal number 3?

38.3) _____

A) Alerting public of natural hazards
B) Use of earth resources
C) Ensuring the future of human life
D) Informing society

Question Details
Section : 01.04 Science and Society
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39) Suppose an electric-generating power plant is about to be built near your house. The local government has not decided whether to allow coal, nuclear, or oil as fuel for the plant (natural gas is not an option). Some groups argue coal is the best choice because there is a 200-year supply and using coal reduces our dependence on foreign oil. Critics argue that burning coal produces three times more global-warming gasses than oil. Coal also produces more dust and expels more acid-rain-causing gases than oil. Others argue that nuclear-generated power produces no greenhouse gases and no other atmospheric pollution. Critics argue that there is presently no long-term location to store the radioactive waste that will be generated and question the safety of nuclear power. Over the life of the plant, nuclear is the least expensive option, followed by coal and then oil.

Question Details
Topic : Physical, Chemical, Social and Cultural Aspects of Earth Science
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39.1) Place the fuel options from this paragraph in order from highest impact on global warming to least impact.

39.1) _____

A) Nuclear, oil, coal
B) Oil, coal, nuclear
C) Coal, nuclear, oil
D) Coal, oil, nuclear

Question Details
Section : 01.04 Science and Society
Topic : Physical, Chemical, Social and Cultural Aspects of Earth Science
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Bloom's : Level 3. Apply
Chapter : 01 Introduction to Earth Science

39.2) Which earth system interaction is illustrated by this passage?

39.2) _____

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A) Geosphere to atmosphere
B) Atmosphere to geosphere
C) Geosphere to hydrosphere
D) Hydrosphere to geosphere

Question Details
Gradable : automatic
Section : 01.02 The Scope of Earth Science
Topic : The Scope of Earth Science
Bloom's : Level 4. Analyze
Chapter : 01 Introduction to Earth Science

39.3) Which of the earth-system scientist's roles is best illustrated by this paragraph?

39.3) _____

A) Alerting public of natural hazards
B) Use of earth resources
C) Ensuring the future of human life
D) Informing society

Question Details
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40) Many people think that water draining from a sink rotates in a particular direction due to something called the Coriolis effect, which is generated by the rotation of the earth. Furthermore, such people frequently argue that the direction of water flow is reversed in the opposite hemisphere. In reality, the Coriolis effect in that situation is too small to affect the direction water drains from a sink or toilet. The drainage direction is instead related to the shape of the sink bowl or the direction water flushes into a toilet.

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Question Details
Topic : Physical, Chemical, Social and Cultural Aspects of Earth Science

40.1) Which characteristic of "bad science" related to draining water is most prevalent in this passage? Which characteristic of "bad science" related to draining water is most prevalent in this passage?

40.1) _____

A) Attack on thescientist, not the science.
B) Arguing fromauthority.
C) Confusing cause andeffect.
D) The use of badstatistics.

Question Details
Section : 01.03 Doing Science
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Chapter : 01 Introduction to Earth Science

40.2) Which statement best describes science?

40.2) _____

A) Science is a large body of factual knowledge.
B) Science is theprocess of discovery.
C) Science is the quest for ultimate truth.

Question Details
Bloom's : Level 1. Remember
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41) In 2005 the United States Congress mandated that NASA find 90 percent of large Near Earth asteroids (NEAs)-those that have the potential to impact Earth-by the year 2020. This mandate was created in response to recent scientific data indicating large impact events were common in Earth's geologic past and therefore will likely occur again in the future. Many new NEAs have been discovered as a result of NASA's efforts and research is under way to find ways to stop such impact events from occurring.

Question Details
Topic : Characteristics of Science: Good and Bad

41.1) Which of the earth system scientist's roles is best illustrated in this paragraph?

41.1) _____

A) Alerting public ofnatural hazards
B) Use of earthresources
C) Ensuring the futureof human life
D) Informingsociety

Question Details
Section : 01.04 Science and Society
Topic : Physical, Chemical, Social and Cultural Aspects of Earth Science
Gradable : automatic
Bloom's : Level 4. Analyze
Chapter : 01 Introduction to Earth Science

41.2) In the context of the above paragraph, the hypothesis that another large asteroid impact will occur in the future is an example of _____.

41.2) _____

A) bad science
B) deductivereasoning
C) inductivereasoning

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Question Details
Section : 01.03 Doing Science
Topic : Application of Earth Science
Gradable : automatic
Bloom's : Level 3. Apply
Chapter : 01 Introduction to Earth Science

41.3) The above paragraph suggests that, unlike other natural hazards, asteroid impacts _____.

41.3) _____

A) may some daybe prevented
B) are intensivelystudied by scientists
C) are not likely tooccur in the near future
D) pose little threatto humans

Question Details
Topic : Characteristics of Science: Good and Bad
Section : 01.04 Science and Society
Bloom's : Level 5. Evaluate
Gradable : automatic
Chapter : 01 Introduction to Earth Science

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Answer Key

Test name: CH01

1) FALSE
2) FALSE
3) FALSE
4) FALSE
5) FALSE
6) FALSE
7) TRUE
8) TRUE
9) FALSE
10) TRUE
11) C
12) B
13) B
14) B
15) B
16) A
17) B
18) D
19) E
20) B
21) C
22) B
23) C
24) B
25) C

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26) B
27) A
28) D
29) A
30) A
31) C
32) A
33) B
34) A
35) Section Break
    35.1) D
    35.2) A
    35.3) B
36) Section Break
    36.1) D
    36.2) C
    36.3) B
    36.4) C
37) Section Break
    37.1) C
    37.2) B
38) Section Break
    38.1) B
    38.2) C
    38.3) D
39) Section Break
    39.1) D
    39.2) A
    39.3) B
40) Section Break

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40.1) C

40.2) B

41) Section Break

41.1) C

41.2) C

41.3) A

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