Chapter 02 Evaluating Nutrition Information

Multiple Choice Questions

1. After reviewing the results of a patient's medical tests, a physician tells the patient that her mild back pain is not caused by a serious problem, and she can try acupuncture and massage therapy to relieve the discomfort. Based on this information, the physician's advice indicates that he

A. is a typical conventional medical practitioner.

B. practices integrative medicine.

C. practices quackery.

D. is from an Asian country.

Bloom's Level: 3. Apply Learning Outcome: 2.04.01 Explain the difference between conventional medicine and complementary and alternative medicine (CAM). Section: 2.04 Topic: Complementary and alternative medicine

2.

After examining a patient and reviewing the results of his blood tests, a physician tells the patient that his mild depressive symptoms are not the result of a serious health problem. The physician suggests that the patient should try regular exercise and take the dietary supplement St. John's wort for three months. After this period, the physician will prescribe antidepressant medication, if the patient does not feel emotionally better. This advice is

A. quackery and medically irresponsible.

B. an indication that the physician practices integrative medicine.

C. unreliable because the physician is not considering alternative methods of treating the patient's mental illness.

D. typical for a conventional medical practitioner.

Bloom's Level: 4. Analyze Learning Outcome: 2.04.01 Explain the difference between conventional medicine and complementary and alternative medicine (CAM). Section: 2.04 Topic: Complementary and alternative medicine 3. Which of the following statements is false?

A. Disclaimers are clues that a product is not likely to live up to your expectations or the manufacturer's claims.

Β.

A person with a PhD who promotes drinking vinegar as the cure for lung cancer is practicing quackery.

С.

The RDN credential is legally protected.

<u>D.</u> According to scientific research, most dietary supplements provide considerable health benefits.

Bloom's Level: 2. Understand Learning Outcome: 2.02.03 Identify common "red flags" that are signs of nutrition misinformation. Learning Outcome: 2.03.01 Explain how to identify reliable nutrition experts. Learning Outcome: 2.04.03 Discuss the risks and benefits of taking dietary supplements. Section: 2.02 Section: 2.04 Topic: Dietary supplements Topic: Evaluating nutrition information

- 4. _____ can be classified as a dietary supplement.
- A. Chewing tobacco
- **<u>B.</u>** Gingko biloba
- C. Cherry jelly
- D. Orange drink

Bloom's Level: 2. Understand Learning Outcome: 2.04.02 Explain how the FDA regulates medicines differently than dietary supplements. Section: 2.04 Topic: Dietary supplements 5. A scientist discovers a chemical compound in certain rocks that she calls "stonia." She cannot market extracts that contain stonia as a dietary supplement, because it A. has to receive a U.S. patent before the FDA will approve its use. **B.** does not contain dietary ingredients. C.

must first undergo scientific testing to determine its effectiveness.

D. contains more than one kind of natural material.

Bloom's Level: 3. Apply Learning Outcome: 2.04.02 Explain how the FDA regulates medicines differently than dietary supplements. Section: 2.04 Topic: Dietary supplements

6. Which of the following statements is true?

A. People who develop side effects after taking dietary supplements can report their experiences to the GAO.

B. According to the legal definition developed by the FDA, a "dietary supplement" is a food that influences metabolism.

<u>C.</u>

Dietary supplements may interact negatively with other substances a person takes.

D. Physicians and dietitians do not recommend dietary supplements for their patients.

Bloom's Level: 2. Understand Learning Outcome: 2.04.03 Discuss the risks and benefits of taking dietary supplements. Section: 2.04 Topic: Dietary supplements 7. Which of the following statements is true?

A. Physicians and dietitians do not recommend dietary supplements for their patients.

B. According to the legal definition developed by the FDA, a "dietary supplement" is a food that influences metabolism.

C. People who develop side effects after taking dietary supplements can report their experiences to the GAO.

<u>D.</u>

Before taking a dietary supplement, people should determine whether the product is necessary and safe.

Bloom's Level: 2. Understand Learning Outcome: 2.04.03 Discuss the risks and benefits of taking dietary supplements. Section: 2.04 Topic: Dietary supplements

8. Which of the following practices is an example of complementary and alternative medicine (CAM)?

<u>**A.**</u> Visiting a chiropractor to have a spinal treatment B.

Taking aspirin to reduce inflammation.

С.

Having surgery to remove a cancerous tumor.

D.

Consuming foods that contain niacin to treat pellagra.

Bloom's Level: 2. Understand Learning Outcome: 2.04.01 Explain the difference between conventional medicine and complementary and alternative medicine (CAM). Section: 2.04 Topic: Complementary and alternative medicine 9. Which of the following practices is an example of complementary and alternative medicine (CAM)?

А.

Having surgery to repair a torn tendon

<u>B.</u> Consuming St. John's wort to improve mood

C. Taking an aspirin to relieve a headache

D. Using a prescription antibiotic to treat a skin infection

Bloom's Level: 2. Understand Learning Outcome: 2.04.01 Explain the difference between conventional medicine and complementary and alternative medicine (CAM). Section: 2.04 Topic: Complementary and alternative medicine

10. Which of the following statements is true? \underline{A} .

The FDA can recall a dietary supplements when there is evidence that it is harmful.

B. Manufacturers of dietary supplements must inform the FTC about negative health reports that may have resulted from the use of their products.

C. Medicinal herbs must undergo testing for safety and effectiveness by the FDA before they can be marketed.

D. The EPA regulates the labeling of dietary supplements.

Bloom's Level: 1. Remember Learning Outcome: 2.04.02 Explain how the FDA regulates medicines differently than dietary supplements. Section: 2.04 Topic: Dietary supplements

11. Which of the following statements is true?

A. Dietary supplements can be recalled if the products contain kava, lysine, or glucosamine. B.

Dietary supplements can include substances that are spread on the skin or injected into the body.

<u>C.</u> Consumers can report negative health reports that may have resulted from their use of dietary supplements to the FDA.

D. Medicinal herbs must undergo testing for safety and effectiveness by the FDA before they can be marketed in the United States.

Bloom's Level: 1. Remember Learning Outcome: 2.04.02 Explain how the FDA regulates medicines differently than dietary supplements. Section: 2.04 Topic: Dietary supplements

12.

Which of the following statements is true?

А.

Since 1970, nutrition information has undergone few updates, because scientists have discovered all of the nutrients and determined their functions.

Β.

Dietary recommendations are generally based on the findings of one team of nutrition researchers.

С.

The results of one study are usually enough to convince nutrition scientists to adopt new ideas about nutrition-related topics.

D.

It is not unusual for similar studies, especially those involving human subjects, to have different findings.

Bloom's Level: 2. Understand Learning Outcome: 2.01.05 Discuss why similar scientific studies often have different results. Section: 2.01 Topic: Scientific method

13.

Which of the following statements is true?

<u>A.</u>

A scientist's professional affiliations and sources of financial support may influence his or her research findings.

Β.

The results of one study are usually enough to convince the majority of nutrition scientists to adopt new ideas about nutritionrelated topics.

C.

Dietary recommendations are generally based on the findings of one well-respected team of nutrition researchers.

D.

Since 1995, nutrition information has undergone few updates, because scientists have discovered all of the nutrients and determined their functions.

Bloom's Level: 2. Understand Learning Outcome: 2.01.05 Discuss why similar scientific studies often have different results. Section: 2.01 Topic: Scientific method 14.

Which of the following statements is true?

<u>A.</u>

Scientific studies to investigate the same question can have different findings.

B. Dietary recommendations are generally based on the findings of one team of nutrition researchers.

С.

When interpreting results of their studies, researchers generally seek to include some bias into their analyses.

D.

Since 1970, nutrition information has undergone few updates, because scientists have discovered all of the nutrients and determined their functions.

Bloom's Level: 2. Understand Learning Outcome: 2.01.05 Discuss why similar scientific studies often have different results. Section: 2.01 Topic: Scientific method

15.

A group of scientists suspects that certain dietary practices are partially responsible for different rates of hypertension among adults of different ethnic/racial groups. To test their hypothesis, the researchers examine data concerning the different population groups' hypertension rates and their past dietary practices. This research is a(n) ______ study.

<u>A.</u> retrospective B. case-control C. prospective D. hypothetical

Bloom's Level: 2. Understand Learning Outcome: 2.01.01 Explain the basic steps of the scientific method. Section: 2.01 Topic: Nutrition basics 16. A group of registered dietitians is planning to conduct a scientific study to investigate the effects of eating honey on school-age children's behavior. At first, the researchers will

A. gather data.

B. identify relationships between variables.

<u>**C.**</u> make observations.

D. analyze the hypothesis.

Bloom's Level: 1. Remember Learning Outcome: 2.01.01 Explain the basic steps of the scientific method. Section: 2.01 Topic: Scientific method

17.

A medical researcher reads an article in "Today's Health-Conscious Woman" magazine about the benefits of using the phytochemical *capsaicin* to treat knee pain. She asks 10 people with arthritic knees to rub a cream that contains the phytochemical on their knee joints for two weeks. At the end of the two weeks, the researcher asks the subjects whether their knee pain improved, stayed about the same, or worsened during the treatment period. After collecting responses from the people, the researcher reports the results of her study during a popular TV show that is hosted by a doctor. Based on this information, which of the following statements is true?

А.

The researcher reviewed scientific literature regarding the use of capsaicin to treat knee pain.

Β.

The researcher used a standard scientific design for research involving human subjects.

<u>**C.</u>** The researcher did not divide the subjects of her study into control and treatment groups. D.</u>

The researcher subjected the results of her study to peer-review.

Bloom's Level: 4. Analyze Learning Outcome: 2.01.01 Explain the basic steps of the scientific method. Learning Outcome: 2.01.02 Explain the importance of having controls when performing experiments. Section: 2.01 Topic: Scientific method 18. A group of scientists conducts a scientific study to investigate dietary factors that influence the development of obesity. Which of the following activities is not likely to be a component of their research efforts?

A. Submitting an article describing the study to a peer-reviewed journal

B. Posting findings at the main researcher's Internet web site

C. Collecting data and analyzing results

D. Making observations and formulating a hypothesis

Bloom's Level: 1. Remember Learning Outcome: 2.01.01 Explain the basic steps of the scientific method. Section: 2.01 Topic: Scientific method

19. According to the observations of a nutrition scientist, laboratory mice are healthier when their diet contains physiological levels of vitamin D than when their diet lacks

the micronutrient. The scientist hypothesizes that mice will be less likely to develop cancer when they consume a diet that supplies megadoses of vitamin D. Based on this information, the scientist is ready to

A. plan a retrospective study involving at least 5,000 laboratory mice to test the vitamin D and cancer hypothesis in mice.

B. set up an experimental epidemiological study to test the vitamin D and cancer hypothesis in mice.

C. design a double-blind study to test the vitamin D and cancer hypothesis in mice.

 $\underline{\mathbf{D}}$. conduct a controlled laboratory experiment to test the vitamin D and cancer hypothesis in mice.

Bloom's Level: 3. Apply Learning Outcome: 2.01.02 Explain the importance of having controls when performing experiments. Section: 2.01 Topic: Scientific method 20.

Researchers at a major American university plan a 10-year scientific study to investigate lifestyle factors that contribute to heart disease. Which of the following activities is likely to be a component of their research efforts?

А.

Contacting the local news station to report their findings

<u>B.</u> Submitting an article describing the study to a peer-reviewed journal C. Posting significant findings at the main researcher's Internet web site D.

Establishing a place for the subjects to live for the duration of the study.

Bloom's Level: 2. Understand Learning Outcome: 2.01.03 Design a nutrition-related study that involves human subjects. Section: 2.01 Topic: Scientific method

21. Scientists enroll 500 healthy adults in a study and collect dietary and other lifestyle information about the group. After 6 years, the scientists determine that study participants who ate at least 5 servings of fruits and vegetables daily were less likely to develop high blood pressure than participants who ate fewer than 5 servings of these foods daily. This study is an example of a(n) _____ study.

<u>A.</u> prospective

B. retrospective

C. nutritive

D. introspective

22. A scientist adds 5 mcg of the mineral cadmium to the daily diet of 100 4-week-old laboratory mice. After twelve weeks, the researcher weighs and takes blood samples from each mouse. According to her findings, the mice lost weight during the 12-week period and they have abnormal levels of certain hormones in their blood. Based on this information and your knowledge of scientific research, what would you tell the researcher about her findings?

A. She needs to conduct more tests on the animals' blood, because her findings are incomplete.

B. The findings need to be summarized in a research article for submission to a peer-reviewed nutrition journal.

C. Her results are very interesting and she should report her findings to nutrition scientists, so they can repeat her study and confirm the results.

D. The findings are not meaningful or valid because of the way she designed her study.

Bloom's Level: 4. Analyze Learning Outcome: 2.01.02 Explain the importance of having controls when performing experiments. Section: 2.01 Topic: Scientific method

23. A nutrition researcher adds 30 mg of the mineral iron to the daily diet of 50 4-week-old laboratory mice. After ten weeks, the scientist takes blood samples from each mouse.

According to his findings, the mice developed abnormal levels of certain enzymes in their red blood cells. Based on this information and your knowledge of scientific research, what would you tell him?

A. He should prepare a research article that describes his study and its results for submission to a peer-reviewed

nutrition journal.

B. He should report his findings to other nutrition scientists, so they can repeat his study and confirm the results.

C. He should call a press conference and report his findings to the public, so they can avoid consuming excess iron.

<u>D.</u> He should consider his findings as an observation and redesign the study to include a control group.

Bloom's Level: 4. Analyze Learning Outcome: 2.01.02 Explain the importance of having controls when performing experiments. Section: 2.01 Topic: Scientific method 24. Over a 2-year period, a team of scientists records the eating behaviors and physical activity patterns of a group of healthy 8-year-old children to determine whether these factors are associated with weight gain. This study is an example of a(n) _____ study.

<u>A.</u> prospective B.

in-vitro

C. case-control D. retrospective

Bloom's Level: 2. Understand Learning Outcome: 2.01.03 Design a nutrition-related study that involves human subjects. Section: 2.01 Topic: Scientific method

25. A group of nutrition researchers interviews 100 adults who have chronic high blood pressure to determine whether there is an association between consuming diets low in calcium during adolescence and developing high blood pressure in adulthood. This study is an example of a _____ study.

A. macrosomatic

B. case-control

C. prospective

D. retrospective

Bloom's Level: 2. Understand Learning Outcome: 2.01.03 Design a nutrition-related study that involves human subjects. Section: 2.01 Topic: Scientific method

26. Which of the following kinds of studies would be the best to use when designing a scientific investigation to determine whether there is an association between consuming diets high in sodium during adolescence and developing high blood pressure in adulthood?

A. Observational study

B. Double-blind study

C. Experimental study

D. Single-blind study

27. A nutrition researcher would like to determine whether women who take fish oil supplements during pregnancy give birth to babies who score higher on basic intelligence tests when they are 5 years of age than the 5-year old children that were born to women who did not take the fish oil supplements during pregnancy. This kind of research is a _____ study.

 $\underline{\mathbf{A}}_{\mathbf{B}}$ prospective $\mathbf{B}_{\mathbf{B}}$.

in-vivo

C. double-blind D. case-control

Bloom's Level: 4. Analyze Learning Outcome: 2.01.03 Design a nutrition-related study that involves human subjects. Section: 2.01 Topic: Scientific method

28. Which of the following kinds of studies would be the best to use to identify lifestyle factors that may be related to the development of liver cancer in an adult population?

A. Double-blind study

B. Experimental study

<u>C.</u> Retrospective study

D. Single-blind study

29. Scientists who investigate lifestyle factors that influence the prevalence of obesity among different population groups are conducting a(n) _____ study.
<u>A.</u> epidemiological
B. technological
C.

in-vitro

D. pathological

Bloom's Level: 2. Understand Learning Outcome: 2.01.03 Design a nutrition-related study that involves human subjects. Section: 2.01 Topic: Scientific method

30. Which of the following kinds of studies would be the best to use when investigating whether cigarette smoking influences weight gain?

A. Conventional

B. Double-blind

C. Single-blind

D. Cohort

Bloom's Level: 2. Understand Learning Outcome: 2.01.03 Design a nutrition-related study that involves human subjects. Section: 2.01 Topic: Scientific method

31. Scientists in a Central American country are studying factors that may be associated with delayed physical growth among a group of low-income children. The children live in a region of the nation that has high levels of lead in drinking water. This study is an example of a(an)

____ study.

- A. epidemiological
- B. introspective

C. conventional

D. uncontrollable

Chapter 02 - Evaluating Nutrition Information

32. Scientists would like to conduct a study to identify lifestyle factors that are associated with delayed physical growth among a group of low-income American children. Which of the following research designs would be the best for the researchers to use when designing their study?

A. Double-blindB. Interventional

C.

Human in-vivo experimental

D. Epidemiological

Bloom's Level: 3. Apply Learning Outcome: 2.01.01 Explain the basic steps of the scientific method. Section: 2.01 Topic: Nutrition basics

33. A group of scientists would like to determine lifestyle factors that are associated with the development of asthma among American children. Based on this information, the researchers should design a (an) _____ study.

А.

in-vivo

B. epidemiological C. double-blind D. conventional

34. Generally, epidemiological studies

Α.

involve in-vitro experimentation.

B. establish causation without experimentation.

C. prove positive correlations.

D. cannot determine cause-and-effect relationships.

Bloom's Level: 1. Remember Learning Outcome: 2.01.03 Design a nutrition-related study that involves human subjects. Section: 2.01 Topic: Scientific method

35. Derek takes protein supplements before and after his workouts. He told his workout partner that he became 200% stronger within a couple of months after he added the supplements to his diet. His report about the effects of the supplements is an example of a(an)

A. case report.

B. variable.

<u>C.</u> anecdote.

D. factoid.

Bloom's Level: 2. Understand Learning Outcome: 2.01.04 Explain why nutrition information derived from anecdotes is not evidence based. Section: 2.01 Topic: Evaluating nutrition information 36. Zack takes 500 mg of vitamin C daily. He advises his friends to take vitamin C supplements because, he claims, the vitamin protects him from cold viruses. His claim about the usefulness of the vitamin is an A.

in-vivo report.

Β.

in-vitro assumption.

<u>C.</u> anecdote. D. introspection.

Bloom's Level: 2. Understand Learning Outcome: 2.01.04 Explain why nutrition information derived from anecdotes is not evidence based. Section: 2.01 Topic: Evaluating nutrition information

37. Emily has brittle fingernails that crack and split easily. Emily's mother advises her daughter to take gelatin pills 3 times/day, because she has heard the practice strengthens fingernails. The mother's nutrition-related advice about the benefit of taking gelatin pills is an example of a(n)

A. hypothesis.

B. testimonial.

 $\underline{\mathbf{C}}$. anecdote.

D. placebo.

Bloom's Level: 2. Understand Learning Outcome: 2.01.01 Explain the basic steps of the scientific method. Section: 2.01 Topic: Nutrition basics 38. Dylan takes garlic pills to lower his blood cholesterol level, and he recommends the pills to his friends, because he thinks the supplement is helpful. Dylan's nutrition-related advice to his friends is an example of a(an)

A. peer review.

B. subjective bias.

<u>C.</u> anecdote.

D. introspection.

Bloom's Level: 2. Understand Learning Outcome: 2.01.04 Explain why nutrition information derived from anecdotes is not evidence based. Section: 2.01 Topic: Evaluating nutrition information

39. Having a control group enables researchers to

A. compare findings of the control group with those of the experimental group.

B. explore possible hypotheses for future research efforts.

C. avoid using harmful interventions when testing control subjects' responses.

D. provide specific treatments to participants of the group.

Bloom's Level: 1. Remember Learning Outcome: 2.01.02 Explain the importance of having controls when performing experiments. Section: 2.01 Topic: Scientific method

40. Phil is a participant in a study designed to examine the effects of taking a dietary supplement on muscle tissue development. Phil suspects he is in the experimental group, because he is certain his muscles are bigger and stronger as a result of taking the product supplied by the researchers. When the study is completed, Phil learns that he did not receive the dietary supplement. Phil thinks the researchers made a mistake—he is certain his muscle mass increased while he took the supplement. According to this information, Phil's belief that his physical condition improved while he participated in the study is an example of

A. participant fatigue.

B. human subject bias.

<u>C.</u> the placebo effect.

D. an anecdotal report.

Bloom's Level: 2. Understand Learning Outcome: 2.01.02 Explain the importance of having controls when performing experiments. Section: 2.01 Topic: Scientific method 41. The host of a radio program makes a "red flag" claim about a nutrition-related product, because the claim is generally an indication that the information about the product is unreliable. The radio program host said,

A. "The ingredients in this product are listed on the label."

B. "According to the FDA, this product is classified a dietary supplement, because it contains vitamins."

C. "All ingredients in this product have been scientifically tested and clinically proven."

D. "This product contains sugar and certain artificial color and flavor additives."

Bloom's Level: 3. Apply Learning Outcome: 2.02.03 Identify common "red flags" that are signs of nutrition misinformation. Section: 2.02 Topic: Evaluating nutrition information

42.

A physician who hosts a popular TV show makes several nutrition-related claims during one of the programs. Which of the doctor's claims is a "red flag" of unreliable information?

А.

Not all doctors are nutrition experts.

Β.

The "placebo effect" often occurs in controlled studies involving human subjects.

<u>C.</u> Kava cures migraine headaches. D. Niacin cures pellagra.

Bloom's Level: 4. Analyze Learning Outcome: 2.02.03 Identify common "red flags" that are signs of nutrition misinformation. Section: 2.02 Topic: Evaluating nutrition information 43. Which of the following observations is an example of an inverse correlation?

A. As children increase their physical activity level, they develop greater muscle mass than children who are less active.

B. When pregnant women gain more weight than average, they are more likely to give birth to babies who are heavier than average. C.

When children eat three or more servings fruits and vegetables a day, their blood levels of vitamin C increase.

D. When members of a population increase their consumption of milk and milk products, their risk of bone fractures decreases.

Bloom's Level: 4. Analyze Learning Outcome: 2.01.01 Explain the basic steps of the scientific method. Section: 2.01 Topic: Scientific method

44. Which of the following observations is an example of a positive correlation? A. When members of a population consume fewer fruits and vegetables, their risk of high blood pressure increases. **B**.

When women gain less weight than average during pregnancy, the birthweights of their babies tend to be lower than average.

C. When a group of children increases their physical activity levels, the percentage of the children who contract cold infections decreases.

D. When a population's intake of green tea increases, the percentage of lung cancer cases in that population decreases.

Bloom's Level: 4. Analyze Learning Outcome: 2.01.01 Explain the basic steps of the scientific method. Section: 2.01 Topic: Scientific method 45. Which of the following observations is an example of an inverse correlation?

<u>A.</u> Women who smoke 5 or more cigarettes each day during pregnancy are more likely to give birth to underweight babies than women who smoke fewer than 5 cigarettes a day during pregnancy.

B. When population increases its daily consumption of whole grain products, the population's frequency of daily bowel movements increases.

C. Children who consume 3 cups of vitamin D milk daily develop stronger bones than children who drink fewer than 3 cups of vitamin D milk each day.

D. As a population's intake of beta carotene increases, the population's tissue levels of vitamin A increase.

Bloom's Level: 4. Analyze Learning Outcome: 2.01.01 Explain the basic steps of the scientific method. Section: 2.01 Topic: Scientific method

46. Which of the following observations is an example of a positive correlation?

A. When a population consumes more fruits and vegetables, the percentage of people in that population with scurvy decreases.

B. When teenage girls increase their intake of iron-rich foods, the percentage of the girls who have iron-deficiency decreases.

C. When older adults increase their daily intake of vitamin D, the percentage of the adults that develops infections decreases.

<u>D.</u>

When a group of 6-year-old children increase their physical activity level to 60 minutes a day, the children's muscle mass increases.

Bloom's Level: 4. Analyze Learning Outcome: 2.01.01 Explain the basic steps of the scientific method. Section: 2.01 Topic: Scientific method 47. Which of the following observations is an example of a positive correlation?

<u>A.</u> When a population's vitamin D intake decreases, the percentage of people in the population that have healthy immune systems decreases.

B. When a population's level of vitamin C in white blood cells increases, the percentage of people in the population who develop scurvy decreases.

C. When a population's intake of plant foods decreases, the percentage of obese people in that population increases.

D. When a population's level of physical activity increases, the percentage of people who develop heart disease decreases.

Bloom's Level: 4. Analyze Learning Outcome: 2.01.01 Explain the basic steps of the scientific method. Section: 2.01 Topic: Scientific method

48. Scientists study 200 adults who have type 2 diabetes and 200 adults who have similar characteristics but do not have the disease. For 18 months, the researchers collect lifestyle information on all the study participants. According to the study's findings, the adults with type 2 diabetes were 25% less physically active than their counterparts who did not have type 2 diabetes. This is an example of a(n) _____ study.

A. prospective

B. anecdotal

C. case-control

D. inverse relationship

49. A researcher wants to identify lifestyle factors that increase the risk of stomach cancer in men. His study design involves enrolling 250 adult men who have stomach cancer and 250 men who are cancer-free but have similar characteristics and backgrounds as the men who have stomach cancer. The researcher collects and analyzes information about each participant's lifestyle. Based on this information, what kind of study is the researcher conducting?

<u>A.</u> Case-control B.

In-vivo

C. Experimental D. Cohort

Bloom's Level: 4. Analyze Learning Outcome: 2.01.01 Explain the basic steps of the scientific method. Section: 2.01 Topic: Scientific method

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50. Which of the following observations is an example of a negative (an inverse) correlation?

When a group of older adults increases their intake of high-fiber foods, the percentage of people in the group who develop intestinal cancer decreases.

Β.

When a group of children eat more sugary foods, the percentage of children in the group who develop two or more decayed teeth increases.

C.

When a group of adults increases their intake of fruits and vegetables, the percentage of people in the group who have high blood levels of vitamin C levels increases.

D.

When a group of people decreases their physical activity levels, the percentage of people in the group with healthy levels of body fat decreases.

Bloom's Level: 3. Apply Learning Outcome: 2.01.01 Explain the basic steps of the scientific method. Section: 2.01 Topic: Scientific method

51. Scientists conduct a study in which 100 adults with chronic diarrhea are divided into 2 groups of 50 people. One group is given a supply of yogurt that contains a certain kind of bacteria and the other group is given yogurt that is bacteria free. The study's participants and researchers do not know which group of subjects has the bacteria in the yogurt and which group does not. The scientists instruct the participants to eat the entire 8 ounces of yogurt once a day for a month and record the their bowel habits. This is an example of a(n) _____ study.

A. hypothetical

- B. uncontrolled
- C. introspective
- **D.** double-blind

52. A group of researchers wants to determine whether certain dietary factors are associated with the risk of attention deficit hyperactivity disorder (ADHD). The scientists follow a group of 500 healthy newborn babies for 10 years and collect health information as well as dietary practices for each child. At the end of the study period, the scientists analyze the data for correlations between the children's dietary practices and their likelihood of being diagnosed with ADHD. This is an example of a _______ study.

A. prospective

B. factorial

C. retrospective

D. hypothetical

Bloom's Level: 2. Understand Learning Outcome: 2.01.03 Design a nutrition-related study that involves human subjects. Section: 2.01 Topic: Scientific method

53. Researchers are conducting a study to determine the effects of vitamin C on the human immune system. The study involves providing pills that contain vitamin C to one group of human subjects and pills that do not contain vitamin C or other active ingredients to another group of people. The pills that do not contain the vitamin are

A. antidotes.

<u>B.</u> placebos.

C. probiotics.

D. supplements.

54.

Researchers are conducting a study to determine the effects of vitamin D supplements on the adult human immune system. The study involves providing pills that contain vitamin D to one group of human adults and pills that do not contain the vitamin or other active ingredients to another group of adults. The pills that do not contain vitamin D are

A. interventions.

B. distractors.

<u>C.</u> placebos.

D. antidotes.

Bloom's Level: 1. Remember Learning Outcome: 2.01.03 Design a nutrition-related study that involves human subjects. Section: 2.01 Topic: Scientific method

55. Researchers are conducting a study to determine the effects of zinc supplements on the human immune system. The study involves providing pills that contain zinc to one group of human subjects and pills that do not contain zinc or other active ingredients to another group of people. The pills that do not contain zinc are

A. placebos.

B. probiotics.

C. antidotes.

D. supplements.

56. Which of the following periodicals features peer-reviewed articles? A.

Men's Journal

B. National Geographic Magazine C. Ladies Home Journal <u>D.</u>

Journal of the American Medical Association

Bloom's Level: 1. Remember Learning Outcome: 2.01.01 Explain the basic steps of the scientific method. Learning Outcome: 2.02.01 Explain why there is so much nutrition misinformation. Section: 2.01 Topic: Scientific method

57. The government agency that enforces consumer protection laws by investigating false or misleading health-related claims is the

A. Agricultural Research Service (ARS).

B. Environmental Protection Agency (EPA).

C. Centers for Disease Control and Prevention (CDC).

D. Federal Trade Commission (FTC).

Bloom's Level: 1. Remember Learning Outcome: 2.02.02 Discuss how people can become more critical and careful consumers of nutrition information. Section: 2.02 Topic: Evaluating nutrition information

58. Actress Lotta Talent appears in commercials endorsing the herbal supplement hoodia for weight loss. Her endorsement is an example of a(n)

A. purport.

B. anecdote.

C. factoid.

D. testimonial.

Bloom's Level: 1. Remember Learning Outcome: 2.02.01 Explain why there is so much nutrition misinformation. Section: 2.02 Topic: Evaluating nutrition information

59. The professional football star Andro "The Man" McGraw claims the dietary supplement AminoProFix helped him build muscle mass quickly and safely. His endorsement of the product is an example of

- A. a scientifically valid claim.
- B. peer review.
- <u>**C.**</u> a testimonial.
- D. unbiased reporting.

Bloom's Level: 1. Remember Learning Outcome: 2.02.01 Explain why there is so much nutrition misinformation. Section: 2.02 Topic: Evaluating nutrition information

60.

Which of the following websites is most likely a source of biased and unreliable nutrition information?

A. purdue.eduB. choosemyplate.govC. eatright.orgD. dietsnomore4u.com

Bloom's Level: 3. Apply Learning Outcome: 2.02.02 Discuss how people can become more critical and careful consumers of nutrition information. Section: 2.02 Topic: Evaluating nutrition information 61. A popular fitness magazine has an article about the health benefits of high-fiber diets. If the article's author has the credentials ______ after his or her name, the article is likely to be a reliable source of nutrition information.

A. DN B. MD C. RD D. MS

Bloom's Level: 1. Remember Learning Outcome: 2.03.01 Explain how to identify reliable nutrition experts. Section: 2.03 Topic: Evaluating nutrition information 62. A popular women's magazine has an article about the health benefits of consuming calcium-rich foods. If the article's author has the credentials ______ after his or her name, the article is likely to be a reliable source of nutrition information. A.

MD B. DN C. PhD **D.**

RDN

Bloom's Level: 1. Remember Learning Outcome: 2.02.02 Discuss how people can become more critical and careful consumers of nutrition information. Learning Outcome: 2.03.01 Explain how to identify reliable nutrition experts. Section: 2.02 Section: 2.03 Topic: Evaluating nutrition information

Chapter 02 - Evaluating Nutrition Information

63. Which of the following statements is false? **A.**

The Internet is generally a reliable source of nutrition information, because information posted at websites has been peer-reviewed.

Β.

When evaluating claims for dietary supplements that appear at a website, be wary of products that include promises for quick remedies.

С.

In general, personal websites, such as blogs, are not reliable sources of nutrition information.

D.

Websites with .edu in their addresses are likely to provide reliable nutrition information.

Bloom's Level: 2. Understand Learning Outcome: 2.02.02 Discuss how people can become more critical and careful consumers of nutrition information. Section: 2.02 Topic: Evaluating nutrition information

64. A magazine article about weight loss diets includes false information about the process of digestion that uses scientific-sounding terms to make it seem factual. The faulty information is an example of

A. pseudoscience.

B. bias.

C. mislabeling.

D. hypothesizing.

Bloom's Level: 2. Understand Learning Outcome: 2.02.02 Discuss how people can become more critical and careful consumers of nutrition information. Learning Outcome: 2.02.03 Identify common "red flags" that are signs of nutrition misinformation. Section: 2.02 Topic: Evaluating nutrition information 65. Which of the following statements is true?

A. People who describe themselves as nutritionists are registered dietitians.

<u>B.</u> In general, registered dietitians are reliable sources of nutrition information.

C. Pseudoscience is the practice of medicine without proper training and credentials.

D. In the United States, a person can obtain a Ph.D. in nutrition only by graduating from an accredited institution of higher learning.

Bloom's Level: 2. Understand Learning Outcome: 2.02.02 Discuss how people can become more critical and careful consumers of nutrition information. Learning Outcome: 2.03.01 Explain how to identify reliable nutrition experts. Section: 2.02 Section: 2.03 Topic: Evaluating nutrition information

66. A person claims his newly invented device treats cancer without surgery, medication, or other forms of conventional medical therapy. However, people who have used the device report that it was not helpful, and it may have harmed them. According to this information, the inventor's claims and his device are

A. quackery.

B. unbiased.

C. intuitive.

D. legal.

Bloom's Level: 2. Understand Learning Outcome: 2.02.02 Discuss how people can become more critical and careful consumers of nutrition information. Section: 2.02 Topic: Evaluating nutrition information

67. Which of the following statements is true?

A. In the United States, only registered dietitians can provide nutrition information legally.

B. Registered dietitians are not required to update their knowledge of nutrition and dietetics regularly.

<u>C.</u> The First Amendment of the U.S. Constitution often protects people who spread nutrition misinformation.

D. Pseudoscience is the scientific study of the causation and treatment of chronic diseases.

Bloom's Level: 1. Remember Learning Outcome: 2.02.01 Explain why there is so much nutrition misinformation. Learning Outcome: 2.03.01 Explain how to identify reliable nutrition experts. Section: 2.02 Section: 2.03 Topic: Evaluating nutrition information 68. During a television interview, Dr. Ima Quack provides the following statement. "Most Americans suffer from nutritional deficiency diseases and will develop cancer within the next 10 years because they are not taking my megavitamin formula therapy." Dr. Quack's statement is an example of a(n)

A. medical hypothesis.

B. intuitive deduction.

C. personal observation.

D. scare tactic.

Bloom's Level: 2. Understand Learning Outcome: 2.02.03 Identify common "red flags" that are signs of nutrition misinformation. Section: 2.02 Topic: Evaluating nutrition information

69. A magazine advertisement for a weight loss product includes before and after photos of a woman who supposedly lost 50 pounds in 3 weeks while taking the product. The bottom of the ad includes the statement, "Results are not typical." This statement is an example of a(n) A. anecdote.

B. placebo.

C. testimonial.

D. disclaimer.

Bloom's Level: 2. Understand Learning Outcome: 2.02.03 Identify common "red flags" that are signs of nutrition misinformation. Section: 2.02 Topic: Evaluating nutrition information

70. A team of scientists extracts a chemical that they call "Zombia" from the leaves of a common houseplant. One of the scientists would like to market Zombia as a dietary supplement because it makes people sleepy, when it is injected into them. Based on this information, Zombia

A. cannot be marketed as a dietary supplement.

B. can be marketed as a dietary supplement because it is from a plant.

C. cannot be marketed as a dietary supplement because its source is widespread in nature.

D. can be marketed as a dietary supplement, but only if it is promoted as a conventional food item.

Bloom's Level: 3. Apply Learning Outcome: 2.02.02 Discuss how people can become more critical and careful consumers of nutrition information. Topic: Nutrition basics

Chapter 02 - Evaluating Nutrition Information

71.

The _____ is responsible for ensuring the safety and effectiveness of medications.

А.	NRC
Β.	FTC
<u>C.</u>	FDA
D.	EPA

Bloom's Level: 1. Remember Learning Outcome: 2.04.02 Explain how the FDA regulates medicines differently than dietary supplements. Topic: Nutrition basics