Family and Community Services

(4) The student analyzes factors influencing employability skills. The student is expected to:

(A) evaluate interests, abilities, and personal priorities related to career choices
(B) apply the decision-making process to career selection
(C) demonstrate effective verbal, nonverbal and written communication skills
(D) demonstrate positive human relations skills
(E) demonstrate appropriate grooming, appearance and etiquette for volunteer activities

Chemistry

(3) Scientific processes. The student uses critical thinking, scientific reasoning, and problem solving to make informed decisions within and outside the classroom. The student is expected to:

(C) draw inferences based on data related to promotional materials for products and services

Biology

(9) Science concepts. The student knows the significance of various molecules involved in metabolic processes and energy conversions that occur in living organisms. The student is expected to:

(A) compare the structures and functions of different types of biomolecules, including carbohydrates, lipids, proteins and nucleic acids

Biology

(10) Science concepts. The student knows that biological systems are composed of multiple levels. The student is expected to:

(A) describe the interactions that occur among systems that perform the functions of regulation, nutrient absorption, reproduction and defense from injury
or illness in animals
(C) analyze the levels of organization in biological systems and relate the levels to each other and to the whole system

1. Johnny experiences small scratches while helping local law enforcement clean the nearby highway. He will be fine because his body produces white blood cells that recognize pathogens and
   a. help them reach other parts of the body.
   b. reduce their reproduction rate.
   c. kill them.
   d. move them to a safer place.

2. Community centers help control infections by which of the following means?
   a. Sending announcements to the local paper
   b. Requiring everyone to take aspirin
   c. Charging admission
   d. Authorizing quarantines

3. While working at the nearest hospital with patients, Bill learned a little about medicine. He discovered that __________ is the branch of science concerned with how the body fights off infections.
   a. Anatomy
   b. Physiology
   c. Immunology
   d. Histology

4. While distributing food at a homeless shelter, Wendy read the labels on several cans. One indicated that each portion had 100 calories and 10 calories were from fat. What may we assume from this information?
   a. The can is saturated in high levels of fat
   b. The can has a moderate level of proteins
   c. The can has very few calories from fat
   d. The can has high levels of vitamins

5. While helping to sort boxes of items donated to a local shelter, Thomas developed a low grade fever the day after another worker coughed in his face. What is the most probable cause of his elevated temperature?
   a. The fever could be the result of an infection that was transmitted through the cough
   b. The fever is probably from allergies from the dust off the old items
   c. The fever is just something that happens normally
   d. The fever is most likely food poisoning
6. While taking the trash out during a service-learning project, Michael knew the bag was probably full of bacteria and fungus from spoiled food. What field of medicine studies bacteria?
   a. Sports medicine
   b. Microbiology
   c. Anatomy
   d. Pediatrics

7. During a community cookout, William read the label on a steak package. Each steak was the equivalent of one portion and each portion had 20 grams of protein. William had already eaten two and half pieces of steak. How many grams of protein had William consumed?
   a. 30 grams
   b. 40 grams
   c. 50 grams
   d. 60 grams

8. Maggie wears a mask while cleaning the homes of the elderly to avoid transmitting germs. Which of the following cells help in fighting infections?
   a. White blood cells
   b. Red blood cells
   c. Neurons
   d. Stomach cells

9. While reading to a group of small children, Aaron noticed the word anatomy. One child asked what anatomy was. What would be the best answer Aaron should give?
   a. Anatomy is the study of how blood carries oxygen
   b. Anatomy is the study of how the body fights infections
   c. Anatomy is the study of the physical structure of the body
   d. Anatomy is the study of how bacteria are made

10. Aaron read the label on a spice can in the community kitchen and noticed that each portion had 0 calories. What may we assume from this?
    a. The spice has a lot of fat in it
    b. The spice has a lot of proteins in it
    c. The spice has a lot of carbohydrates in it
    d. The spice most likely doesn’t have any of the above nutrients
Answer Key

1) c
2) d
3) c
4) c
5) a
6) b
7) c
8) a
9) c
10) d