

# Microbiome Post-test

Please circle the **BEST** answer to the following questions.

- Which is most likely to be true about the interaction between humans and microbes?
  - Microbes typically harm humans.
  - Microbes and humans depend on one another for survival.
  - Microbes and humans do not depend on one another for survival.
  - Both a and c
- Sometimes conditions in our body change (for example, diet, hygiene, pathogens, etc.). The microbes living in and on our bodies usually respond to these changes by:
  - dying
  - reproducing
  - either dying or reproducing
  - moving to a different body part
- A symbiotic relationship is between two or more organisms. In this relationship:
  - these organisms live together and benefit from one other.
  - one organism is helped and the other organism is harmed.
  - one organism benefits and the other organism is neither helped nor harmed.
  - all of the above
- How can taking antibiotics (medicine that fights infections) harm microbes in humans?
  - Antibiotics **RARELY** harm microbes.
  - Antibiotics target **ONLY** disease-causing microbes.
  - Antibiotics target **MOSTLY** disease-causing microbes.
  - Antibiotics do **NOT** target disease-causing microbes.

- 5.** Bacteria that are no longer killed effectively by antibiotics (medicine that fights infections) are called "antibiotic resistant." Which of the following is NOT true about bacteria that are antibiotic resistant?
- a.** These bacteria are naturally resistant to certain antibiotics.
  - b.** These bacteria can spread resistance through reproduction.
  - c.** These bacteria can transfer resistance genes to other bacteria through DNA transfer.
  - d.** These bacteria cannot transfer resistance genes to other bacteria through DNA transfer.
- 6.** The human body can be thought of an ecosystem. Why?
- a.** It includes biotic (or living) factors
  - b.** It includes abiotic (or non-living) factors
  - c.** It changes little over time
  - d.** Both a and b
- 7.** Where would microbes most likely NOT be found in or on the human body?
- a.** Skin
  - b.** Muscles
  - c.** Nasal passages
  - d.** Digestive system
- 8.** Microbes may have a relationship with chronic diseases like asthma and diabetes. What is this relationship?
- a.** Microbes almost always cause these diseases.
  - b.** These diseases kill the microbes in our bodies.
  - c.** People with these diseases have groups of microbes that are out of balance.
  - d.** Microbes have nothing to do with these chronic diseases. Microbes are related to contagious diseases.