

- 1** The picture below shows two mature plants.



The two plants were cross-pollinated and each plant produced seeds. Which statement **most** likely describes a characteristic of the offspring that will grow from the seeds produced by each plant?

- A The offspring will grow taller than the parent plants.
 - B The offspring will have healthier leaves than the parent plants.
 - C The offspring will produce fewer flowers than the parent plants.
 - D The offspring will have light-colored flowers like the parent plants.
- 2** Which statement **best** describes how climate conditions in Nevada would be different if the tilt of Earth's axis was at 0° ?
- A The seasons in Nevada would be opposite from the current seasons.
 - B Nevada would experience climate conditions that change very little throughout the year.
 - C Climate conditions in Nevada would be coolest when Earth is closest to the sun.
 - D Nevada would receive the most energy from the sun in the summer and the least in the winter.

- 3** A mining company has just developed a machine that removes more dirt per day than previous methods. Which is a negative consequence of the company using this technology?

- A The machine may require maintenance.
- B The machine will remove native grasses from the topsoil.
- C The machine works faster and longer than human labor.
- D The mining company will lose money at the beginning because the machine will cost so much.

- 4** Which part of the electromagnetic spectrum has frequencies that are **greater** than the frequency of visible light?

- A microwaves
- B infrared light
- C radio waves
- D ultraviolet light

- 5** Which situation is an example of an animal behavior that is **not** passed on genetically to the offspring of the animal?

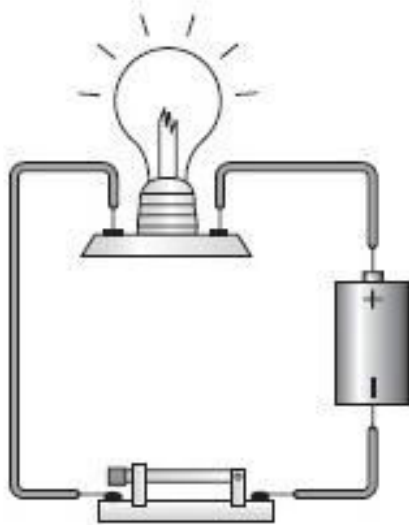
- A a salmon swimming upstream to spawn
- B a squirrel moving toward a person to get food
- C a bird migrating to a warmer climate for winter
- D a baby turtle moving toward water after hatching

- 6** Which of these situations is an example of asexual reproduction?

- A Two organisms mate to produce offspring.
- B Specialized cells divide to produce gametes.
- C Crossbreeding of plants produces new varieties.
- D A single-celled organism divides to produce offspring.

7

The picture below shows an electrical circuit that a student constructed.



Which change would most likely **increase** the resistance in this circuit?

- A removing the switch
- B using shorter wires to make the connections
- C adding another light bulb
- D replacing the battery with a higher-voltage battery

8

The map below shows four cities that border Lake Tahoe.



Key	
•	City
⌄	Mountains

Which city **most** likely experiences lake effect snow?

- A Truckee, California
- B Virginia City, Nevada
- C Carson City, Nevada
- D Sunnyside, California

Answers:

1. D

2. B

3. B

4. D

5. B

6. D

7. C

8. C