Giraffe Physiology & Design

Name: _____ Date: _____

Vocabulary Words: Match the definition to each word.

1. The giraffe is recognized as the tallest land _____ alive on Earth today.
2. When a giraffe lowers its head to drink, gravity causes blood to _____ toward its head.
3. To regulate blood flow and prevent dangerously high pressure in the brain, special _____ in the neck close off as needed.
4. The net located around the giraffe's brain acts to _____ incoming blood.
5. If blood flow to the brain changed too rapidly, a giraffe could become _____ and vulnerable to attack.

Word bank: Mammal, Disperse, Check Valves, Dizzy, Rush

Multiple Choice: Choose the correct answer from the choices for each question.

1. How long is a giraffe's heart?
   - A) 6 inches
   - B) 1 foot
   - C) 2 feet
   - D) 4 feet

2. Why is rapid physical adaptation crucial when a giraffe is drinking water?
   - A) Water evaporates quickly in its native environment.
   - B) Predators can attack while vulnerable.
   - C) Blood flow stops entirely.
   - D) The check valves close if left lowered.

3. What critical biological function do the check valves in the giraffe's neck serve?
   - A) Increase oxygen into the lungs.
   - B) Control blood flow when head is down.
   - C) Cool down the blood before reaching the brain.
   - D) Allow water to travel down the throat.

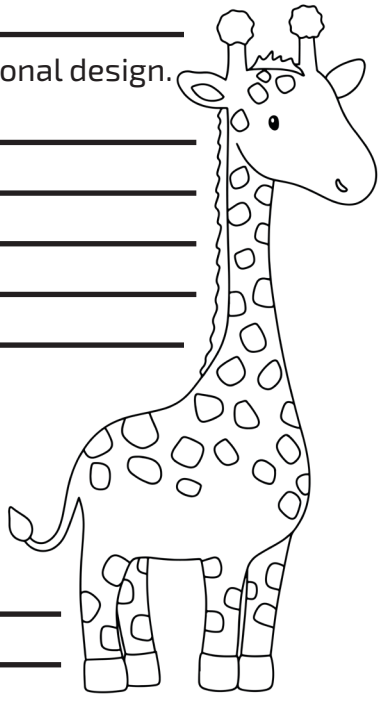
4. What must a giraffe do in order to lower its head?
   - A) Bend its front knees completely
   - B) Spread its legs apart
   - C) Lay down on the ground
   - D) Curve its neck into an 'S' shape

Discussion & Reflection: Answer the following questions in complete sentences

1. Describe the challenge a giraffe faces when lowering its head up and down. How did God design to fix this? _____

2. Consider evolutionary development over time vs. immediate fully functional design. Which do you think made the Giraffe? Explain your reasoning. _____

3. This shows me that God is (Circle the word):

Wise Powerful Caring Creative All of the above

Explain your choice: _____