

1. Plant-based food sources as well as biotechnology for alternative meat products come with higher costs and unknown environmental impacts as production scales up.
  - a. (X) True
  - b. False
  
2. Which four major multinational companies control the animal protein supply chain?
  - a. Tyson, JBS, Smithfield Foods, Cargill
  - b. Cargill, JBS, National Beef, Archer Daniel Midlands
  - c. Archer Daniel Midlands, Smithfield Foods, Marfig, National Beef
  - d. (X) Tyson, Cargill, JBS, National Beef
  
3. In the 19<sup>th</sup> Century Americas, the beef supply chain shifted most of the cattle production to regional western hubs centered on \_\_\_\_\_.
  - a. Commercial shipping
  - b. The trucking industry
  - c. (X) Railroad development
  - d. Airline freight
  
4. The US imports as much beef as it exports due to the fact that \_\_\_\_\_.
  - a. (X) US consumers predominately eat only certain cuts
  - b. US cattle ranchers can fetch better prices abroad than domestically
  - c. US consumers prefer meat from different breeds of cows to the kinds typically raised in the US
  - d. Beef is cheaper to import from other countries than it is to buy at domestic prices
  
5. While \_\_\_\_ remains the world's largest pork consumer, in \_\_\_\_, the largest per capita meat consumer, pork lost its dominance to beef in the early 20<sup>th</sup> century due to strong beef industry organizations and promotion, and negative associations of pork with diseases such as Trichinosis.
  - a. China, Argentina
  - b. The US, Australia
  - c. (X) China, The US
  - d. The US, Argentina
  
6. The concentration and scale of the egg and poultry supply chains are primarily due to \_\_\_\_\_.
  - a. Consumer demand created by clever marketing techniques

- b. Consumer demand for alternative protein sources other than beef and pork
  - c. The lack of cultural barriers that prevent large groups from consuming the product
  - d. (X) Consumer demand for cheap and uniform products
7. Once laying hens have expired in productive life, these “spent hens” are transferred to the broiler chicken supply chain to be processed for meat consumption.
- a. True
  - b. (X) False
8. The most consumed milk in the world is \_\_\_\_\_.
- a. Cow milk
  - b. Horse milk
  - c. (X) Goat milk
  - d. Sheep milk
9. Which of the following is NOT a distinct operational model of dairy product manufacturing?
- a. Third-party purchasing
  - b. Farmstead dairies
  - c. Open market sourcing
  - d. (X) Utter-to-table
10. McDonalds recently has been considered a leader in animal welfare for both beef and chicken, according to animal welfare advocates.
- a. True
  - b. (X) False