

Name:

Class:

Date:

## **Lesson 12.4: By-Products from Animal Industries**

### **Lesson Review**

*Carefully study the lesson and then answer the following questions.*

1. What is the difference between a primary product and a by-product? (12.4.1)

Answer:

2. Explain the purpose of the rendering industry. (12.4.0)

Answer:

3. How much of an animal harvested for human consumption is used to manufacture useful products? (12.4.0)

- A. About 90%
- B. About 92%
- C. About 94%
- D. About 98%

Answer:

*Match the animal species to their by-product percentage. (12.4.1)*

- A. 50%
- B. 45%
- C. 40%
- D. 30%
- E. 29%
- F. 21%

4. Beef cattle

Answer:

5. Swine

1

Answer:

6. Lambs and goats

Answer:

7. Broilers (chickens)

Answer:

8. Dairy cattle

Answer:

9. Turkeys

Answer:

10. List three types of variety meats. (12.4.2)

Answer:

11. *True or False?* About 2.7% of the total weight of cattle is variety meat. (12.4.2)

Answer:

12. *True or False?* Leather is the term for the skin of an animal. (12.4.3)

Answer:

13. *True or False?* The process of preserving an animal's hide is called tanning. (12.4.3)

Answer:

14. What is the difference between leather and a pelt? (12.4.3)

Answer:

15. The odorless, colorless, sterile protein powder created from bone, horns, and hooves is called \_\_\_\_\_. (12.4.4)

- A. lanolin
- B. adhesive
- C. gelatin
- D. protein

Answer:

16. Which of the following animal products is commonly used as a commercial-grade lubricant? (12.4.4)

- A. Lanolin
- B. Adhesives
- C. Gelatin
- D. Protein

Answer:

*Match the product to the portion of the animal from which it comes. Answers may be used more than once.*

- A. Variety meats
- B. Hide, hair, fur, and wool
- C. Bone, horn, and hooves
- D. Fats and fatty acids

17. Crayons (12.4.5)

Answer:

18. Insulation for homes (12.4.3)

Answer:

19. Sweetbreads (12.4.2)

Answer:

20. Glue and paste (12.4.4)

Answer:

21. Brushes (12.4.3)

Answer:

22. Gummy bears (12.4.4)

Answer:

23. Until recent advancements, insulin from \_\_\_\_\_ was routinely used by diabetics. (12.4.6)

- A. monkeys
- B. horses
- C. cattle
- D. pigs

Answer:

24. How many humans have received successful xenotransplantation of animal heart valves? (12.4.6)

- A. Twenty
- B. Seventy-five
- C. Hundreds
- D. Thousands

Answer:

25. Why are animal by-products a good addition to industrial chemicals? (12.4.6)

Answer:

26. *True or False?* Fish meal commonly includes by-products. (12.4.6)

Answer:

27. *True or False?* Almost all Americans use animal by-products each day. (12.4.6)

Answer:

### **Critical Thinking**

1. Have you used animal by-products today? Identify all of the products you may have come in contact with this week that were created using animal by-products. (12.4.0)

Answer: