**Livestock Production – Study Guide**

**Test: Thursday, April 24**

1. Livestock trends
2. Animal welfare and five freedoms
3. “Farm Animals: Who Cares”
   1. Animal care practices and rationale
   2. Difference between animal welfare and animal rights
   3. Be prepared to develop personal opinions on particular animal welfare issues
4. Beef cattle industry
   1. Vocabulary
   2. Types of operations
   3. Good production practices
   4. Calving seasons – advantages and disadvantages
   5. Digestive system of cattle
5. Dairy industry
   1. Vocabulary
   2. Supply management system
   3. Production
   4. rBST
6. Pork industry
   1. Vocabulary
   2. How has industry changed over past 50 years?
   3. Advantages of indoor, intensive housing systems
   4. Farrow-to-finish
7. Poultry industry
   1. Vocabulary
   2. Chicken broiler operations
   3. Turkey broiler operations
   4. Lay hen operations
      1. Egg grading
8. PMU industry
   1. Focus on collection season (winter)
9. Other livestock industries
   1. Sheep
   2. Goats
   3. Bees
   4. Bison
   5. Elk

**Livestock Production – Review Questions**

**Fill-in-the-Blanks**

Fill-in-the-blanks with the correct word(s).

1. An example of a non-food pig by-product is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of a hen determines the colour of the shell of the egg it lays.
3. These institutions match Canadian supply with demand to ensure product availability and reasonable returns to producers: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ reduces cannibalism in birds.
5. Most dairy cows and heifers are bred via \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ produce milk that is high in butterfat.
7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are used to treat or prevent bacterial infections.
8. Broiler chickens are housed in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
9. Cattle have \_\_\_\_\_\_ stomach(es).
10. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are all breeds of beef cattle.
11. Calves need to receive 10% of their body weight in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the first 12 hours after birth.
12. The province with the most dairy cows is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
13. The average dairy cow produces \_\_\_\_\_\_\_\_\_ L of milk each day.
14. \_\_\_\_\_\_\_\_\_\_\_\_\_ is a veterinary drug produced through biotechnology that mimics a natural hormone and is given to lactating dairy cows in the US to boost milk production.
15. A(n) \_\_\_\_\_\_\_\_\_ is a castrated male of the bovine species.
16. A(n) \_\_\_\_\_\_\_\_\_\_\_\_ is a young female that hasn’t yet had a calf.
17. A (n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is an adult male pig kept for breeding purposes.
18. A(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is an adult female pig.
19. The most popular pork breed in Manitoba is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
20. The gestation period of a sow is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
21. The average laying hen lays \_\_\_\_\_\_\_\_\_\_\_\_\_ eggs per year.
22. It takes approximately \_\_\_\_\_\_\_\_\_\_\_ days for a fertilized egg to hatch.
23. A(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a hen that is less than 19 weeks old.
24. A male turkey is called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
25. Goats can be raised for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
26. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ meat is high in protein and lower in claories and fat than beef.
27. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ foods are those that are grown or produced with the use of synthetic fertilizers and pesticides, genetically modified organisms, growth hormones or medications.
28. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is commonly refered to as mad cow disease.

**Response Question**

1. What sector on the livestock industry makes the largest contribution to Manitoba’s agricultural economy?
2. Explain what is meant by vertical integration, using an example.
3. What are the five freedoms of animal welfare?
4. An increasing number of consumers are asking for “free range” products – this means that animals aren’t confined into traditional cages or pens. What argument could you present against a person who claims that “free range” is better?
5. Select two of the following animal care practices list below and explain why these practices are necessary and humane.

Cattle dehorning

Beak trimming chickens

Sheep tail docking

Farrowing stalls for sows

Ear tagging cattle, sheep & goats

1. Briefly explain the process of food digestion in cattle.
2. I am contemplating moving my calving season from winter to spring. Write a short paragraph endorsing spring calving, providing me with at least three advantages of calving during the spring.
3. Differeniate between a cow-calf operation, backgrounding operation and finishing operation.
4. Identify at least two differences between beef and dairy cow breeds.
5. Milk and egg production in Manitoba is controlled by a supply-management (quota) system. Explain what a supply management system is and the benefits that such a system has to both the egg/dairy farmer and the consumer.
6. What is pasteurization?
7. Identify differences between how pigs were raised 50-60 years ago and how they are raised today.
8. Define “biosecurity” with respect to pig barns.
9. Explain the difference between a broiler farm and laying farm.
10. Why are the majority of Manitoba’s PMU farms no longer in operation?
11. Briefly describe two (2) uses for elk products.
12. You are sitting down for supper, that includes an animal product (beef, chicken, goat, sheep, milk, etc.). Explain, in detail, this animal’s journey from farm gate to your plate*. HINT: This would make a great long answer test question.*

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