

The University of Melbourne

Semester Two Assessment 2003

School of Agriculture and Food Systems
208 207 ANIMAL MANAGEMENT AND PRODUCTION

Number of Pages: 3 pages

This examination paper can be archived in the Baillieu library.

Exam Duration: Three (3) hours

Reading Time: Fifteen (15) minutes

This paper has three (3) pages

Authorised Materials:

No materials are authorised.

Instructions to Invigilators:

Six (6) script books are required.

The examination paper is to remain in the examination room.

Instructions to Students:

There are two (2) sections, each with three (3) parts. Each part has two (2) questions.

Answer six (6) questions.

- at least ONE (1) question from EACH of the THREE (3) parts of section A.
- at least ONE (1) question from ANY part of section B.
- plus TWO (2) questions from EITHER section A or B.

All questions carry equal marks.

Answer each question in a **SEPARATE** script book.

SECTION A

Answer at least one (1) question from each of the three (3) parts in this section.

Part 1 - Beef

1. Discuss the impact on beef production systems of changes in the market place due to EITHER live cattle exports OR the Japanese Ox trade.
2. Discuss the strategies that should be employed to manage cows for high calving percentage, compact calving span and optimal calving interval

Part 2 - Sheep

3. Discuss the significance of drench resistance in sheep industries and describe an integrated control program for stomach worms
4. Describe and evaluate the effectiveness of a progeny test program in EITHER the wool OR prime lamb industry.

Part 3 – Dairy

5. Draw and label a typical lactation curve. Discuss the ways in which the shape of this curve can be manipulated.
6. Why is it important for a seasonal dairy herd to have a compact calving pattern? Discuss the role of induction in maintaining a tight calving pattern.
7. If a farmer increases the energy content of the herd's diet, changes will occur in the milk. What are these changes? What sort of feeds would be fed to increase the energy content of the diet? Extra marks are available if you can explain the mechanism by which the changes occur.

SECTION B

Answer at least one (1) question from this section.

Part 4 – Poultry

8. Discuss the advantages and disadvantages of free range systems for laying hens
9. The chicken industry is vertically integrated. What does this mean? Outline, with reference to one other animal industry, the lessons that other livestock industries can learn from the poultry industry.

Part 5 – Pigs

10. Discuss the importance of sow productivity in pig enterprise profitability. Suggest targets for sow productivity and ways in which these can be achieved.
11. Discuss, using examples, the benefits of all in/all out housing systems.

Part 6 - Other Animal Industries

12. For EITHER mohair, cashmere OR alpaca, discuss the fibre's properties, uses, marketing and supply chain.
13. There are very low infrastructure requirements for alpacas. Discuss these requirements in relation to the biology and management of alpacas.