



Study Programme: Bachelor of Industrial Studies Honours (Agriculture)
Name of the Examination: Final Examination
Course Code and Title : AGI5471 Animal Biology
Academic Year : 2024/2025
Date: 17.02.2026
Time: 09.30 a.m. – 12.30 p.m.
Duration: **3 hours**

General Instructions

1. Read all the instructions carefully before answering the questions.
2. Answers should be in clear handwriting.
3. Do not use red color pen.
4. This question paper consists of **two (02) sections**.

Section 1

- Consists of 15 questions in **four (04) pages**.
- Answer all the questions.
- All questions carry equal marks (05 marks/question).
- Write answers only in the space provided.
- Please do not remove the question paper from the examination hall.
- You may spend **one (01) hour** to answer this section.

Section 11

- Contain **six (06) questions** on one (01) page.
- Answer any **four (04) questions**.
- You may spend **two (02) hours** to answer this section.
- All questions carry equal marks.
- Answer for each question should commence from a new page.

Index number

Section 1

1. Define the term “homeostasis”

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2. Name the two (02) organ systems responsible for maintenance of homeostasis in the animal body.

i.

ii.

3. Name the endocrine gland responsible for the secretion of following hormones

- i. Growth hormone
- ii. Thyroxin
- iii. Insulin
- iv. Progesterone
- v. Testosterone

4. Briefly explain the major function of the rumen in cattle.

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5. State the function of the following parts of the poultry reproductive system in egg formation.

- i. Ovary
- ii. Infundibulum
- iii. Magnum
- iv. Isthmus
- v. Uterus

6. What is meant by nutrient?

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7. Differentiate monosaccharides from disaccharides

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8. Name the monosaccharide/s which forms the following disaccharides.

i. Sucrose

ii. Maltose

iii. Lactose

9. Write **three (03)** polysaccharides responsible for storing foods in plants and animals.

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i.

ii.

iii.

10. State **five (05)** functions of water in animal body.

i.

ii.

iii.

iv.

v.

11. Differentiate between growth and development of animals.

Growth

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Development

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12. State **five (05)** factors effecting growth and development of animals.

i.

ii.

iii.

iv.

V.

13. Indicate whether the following statements are **true or false**.

- (i). An animal originates as a result of fertilizing of an egg (ovum) with a spermatozoon (sperm). (.....)
- (ii). The embryo development of a chicken take place in the uterus of the poultry reproductive system. (.....)
- (iii). Gestation period of cattle is approximately 200 days. (.....)
- (iv). In artificial mating the semen with living sperms is collected from the male and Introduced into female reproductive tract. (.....)
- (v). The oestrus cycle of a cow can be divided into six major stages. (.....)

14. Indicate whether the following statements are **true or false**.

- (i). The ruminant stomach is consists of five compartments (.....)
- (ii). Poultry stomach is consists of two compartments (.....)
- (iii). Prenatal growth refers to the growth that takes place after the birth of an animal. (.....)
- (iv). Production of specialized tissues from unspecialized take place during the development of animal body. (.....)
- (v). Growth and development of farm animal is equally important to increase the profit (.....)

15. Briefly explain the importance of feed evaluation in animal farming

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(End of section 1)

The Open University of Sri Lanka
Faculty of Engineering Technology
Department of Agricultural and Plantation Engineering



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Section 11

1. "Knowledge of a farm manager on anatomy and physiology of farm animals is important to improve the profit of the farm" justify the statement.
2. Evaluate the suitability of ruminant digestive system for the fiber digestion.
3. "Feed Evaluation is essential to increase the profitability of farm animals of an animal farm" justify the statement.
4. Discuss the measures available to prevent and control diseases of farm animals in Sri Lanka.
5. "Water plays an important role in growth and development of farm animals" discuss the statement.
6. Describe the structure and functions of poultry digestive system.

(Each question carries 25 marks)
