

THE PAPUA NEW GUINEA UNIVERSITY OF TECHNOLOGY

FIRST SEMESTER FINAL EXAMINATION –2021

DEPARTMENT OF AGRICULTURE – 3RD YEAR DEGREE

AG 321 – ANIMAL MANAGEMENT II

TIME ALLOWED:- 3 HOURS. TOTAL MARKS = 100

INFORMATION FOR CANDIDATES:

1. You have 10 minutes to read the paper. You must not begin writing during this time
2. This exam paper has a total of 5 questions on 7 pages (including front page).
3. Answer any 4 questions only
4. All answers must be written in the answer book. No other written material will be accepted for marking.
5. This is a closed book exam. Slide rules, calculators and log tables are permitted in the examination room. Notes, textbooks and other recording devices (e.g. mobile phones) are not allowed
6. Write your name and number clearly on the front page of the answer book. Do it now.
7. Marks for each question are shown in each section. Total mark is 100.

Question 1 (25)

- a) Define the following terms related to beef cattle: (1 each)
 - i. Bullock:
 - ii. Marbling
 - iii. Steer
 - iv. Weaning.
 - v. Turn off rate
 - vi. Genotype by environment (GxE) interaction.
 - vii. Flight zone.
- b) Write down the names of any four breeds or genotypes of beef cattle in PNG. (6)
- c) Write down the names of any three beef cattle research stations in PNG (past and present) (6)
- d) Write down the name of the types of feeds given to beef cattle on the ranches in PNG. (6)

Question 2 (25)

- a) In early 1970's a national smallholder cattle development project was implemented by the government with funding from the World Bank. List any four causes of decline of this project. (9)
- b) Why is it necessary to carry out castration on beef cattle? (8)
- c) What can you do to ensure your own occupational health and safety when castrating cattle? (8)

Question 3 (25)

- a) Briefly describe the lactation cycle of a typical commercial dairy cow. (13)
- b) List any three things you can do ensure successful milking of dairy cows in a milking shed. (12)

Question 4 (25)

- a) Write down the names of any 3 major wool breeds of sheep and 3 major meat breeds of sheep (9)
- b) What is the main purpose of docking and drenching of sheep? (8)
- c) Describe any three main health issues which may arise when you graze sheep on pastures. (8)

Question 5 (25)

- a) List any 4 external parasites of goats (8)
- b) What are the effects of external parasites on goats? (8)
- c) What measures would you take to ensure safety when using pesticides to control external parasites on a goat farm? (9)

END
