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UNIVERSITY EXAMINATIONS 2022/2023

SECOND YEAR, SECOND SEMESTER EXAMINATION FOR THE DEGREE OF
BACHELOR OF SCIENCE IN AGRICULTURE

AAP 3257: INTRODUCTION TO ANIMAL HEALTH

DATE: APRIL 2023

TIME: 2 HOURS

INSTRUCTIONS: Answer Question ONE and any other TWO questions.

QUESTION ONE (30 MARKS)

- a) State the importance of the disease condition mastitis in beef and dairy cattle industry. (5 Marks)
- b) List the general symptoms seen in a sick animal (5 Marks)
- c) Name four types of sample that can be taken from a sick animal to help the veterinary doctor arrive at a correct diagnosis. (4 Marks)
- d) Differentiate between the following terms (8 Marks)
 - i. Passive and active immunity
 - ii. Antigen and antibodies
 - iii. Morbidity rate and mortality rate
 - iv. Epidemic disease and sporadic disease
- e) Describe two methods used to prevent disease occurrence in livestock. (4 Marks)
- f) Describe the physical parameters used for examination of health in animals. (4 Marks)

QUESTION TWO (20 MARKS)

- a) Describe the life cycle of *Fasciola hepatica* in sheep (10 Marks)
- b) Describe the body's different mechanisms of defense against pathogens. (10 Marks)

QUESTION THREE (20 MARKS)

- a) Discuss how environmental factors of climate, vectors and animal management could influence the occurrence of infectious diseases among farm animals. (8 Marks)
- b) Name the causative agents of each of the following tick-borne diseases and explain how each causative agent is transmitted. (12 Marks)
 - i. East Coast Fever
 - ii. Heart Water
 - iii. Gall sickness

QUESTION FOUR (20 MARKS)

- a) Describe five types of inflammatory exudates. (10 Marks)
- b) Discuss the routes of drug administration in animals. (10 Marks)