

BINDURA UNIVERSITY OF SCIENCE EDUCATION
BIOLOGICAL SCIENCES DEPARTMENT
BScBZH/HBScED/BScED
PARASITOLOGY (BZH215)

EXAMINATION

2 HOURS (100 MARKS)

INSTRUCTIONS. Where a question contains subdivisions, the mark value is given in brackets. Illustrate your answers where possible, with large clearly labelled diagrams. You should not spend more than thirty minutes on each question.

SECTION A (COMPULSORY)

1. You are presented with chickens infected with *Eimeria* spp that causes coccidiosis in chickens.
 - a. Describe how you would collect the faecal samples. (10 marks)
 - b. Outline how you would perform the faecal egg count test. (15 marks)

SECTION B

2. a. Discuss the socio-medical importance of a named cestode in Zimbabwe. (20 marks)
b. Outline the measures taken by the government to minimise the spread of the cestode parasite. (5 marks)
3. Using a named nematode parasite, discuss it under the following subheadings:
 - a. Insect vector. (1 mark)
 - b. Disease caused. (1 mark)
 - c. Life cycle. (15 marks)
 - d. Control. (8 marks)
4. a) Using a haemoflagellate parasite, discuss it under the following subheadings:
 - i. Insect vector. (1 mark)
 - ii. Disease caused. (1 mark)

iii. Life cycle. (10 marks)

iv. Control. (8 marks)

b) Explain how such a parasite evades the host's immune system.
(5 marks)

5. Discuss the role of insects in the order Diptera as parasites.

6. a) Distinguish between ectoparasites and endoparasites. (10 marks)

(b) Discuss the veterinary importance of a named arachnid.
(15 marks)

END OF EXAMINATION QUESTION PAPER