

**BINDURA UNIVERSITY OF SCIENCE EDUCATION**  
**FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE**

**AGA 212**

**DEPARTMENT: ANIMAL SCIENCE**

**BSc Agricultural Science Animal Science and Technology Part IV Examination**

**BSc Animal Health and Production Extension Part I Examination**

**INTRODUCTION TO VETERINARY EPIDEMIOLOGY**

**DURATION: 3 HOURS**

**TOTAL MARKS: 100**

**INSTRUCTIONS:** Answer any **FOUR** questions. Each question carries **25 Marks**

1) a) Define the following

- i. Endemic
- ii. Epidemic
- iii. Pandemic
- iv. Sporadic

(10)

b) With aid of a diagram describe an epidemic curve (15)

2) Using a table compare the following observational studies

- a) Case control
- b) Cohort
- c) Cross sectional

(25)

3) Write notes on the important components of a diagnostic test. (15)

b) Differentiate screening and diagnostic tests (10)

4) Write notes on the 3 disease control strategies and tactics used to achieve these (25)

5) There are two major types of disease transmission, horizontal and vertical transmission. Explain these two in detail. (25)

6) Explain the advantages and disadvantages of using existing data (25)