

TUTORIAL
QUESTIONS & WORKBOOK
FOR
(ABG 506)

COURSE LECTURERS:

Prof. 'Funmi Adebambo
Dr. A. O. Adebambo

DEPARTMENT OF ANIMAL BREEDING & GENETICS
UNIVERSITY OF AGRICULTURE,
ABEOKUTA

WEEK ONE

- (1) What do you understand by disease resistance?
- (2) With two examples, show how animals display resistance to diseases.
- (3) How would you test resistance to disease in a flock?
- (4) How would you increase the percentage of resistance stock in a flock?

WEEK TWO

- (1) With one example, demonstrate an inborn error of metabolism
- (2) Genetic variations in nutrient utilization has been found in animals, with one example explain this phenomenon
- (3) What is the economic significance of transferring locus in mammals? Explain the significance in cattle.

WEEK THREE

- (1) Describe the immune system
- (2) With diagram discuss
 - (a) The Humoral response
 - (b) The Cell mediated response

WEEK FOUR

- (1) What is the function of immune response
- (2) Expantiate with diagram, the Clonal Secretary theory

WEEK FIVE

CAT ONE

WEEK SIX

Define the following:

Hapten
Tolerance
Auto-immune disease
Antigen
Helper T Cells

Epitope
Germline pattern
Complement protein
Memory cells
Antigenic determinant

WEEK SEVEN

- (1a) What is an antibody?
- (1b) Explain the process of antibody production in mammals.
- (2) With diagram describe the Immunoglobulin structure

WEEK EIGHT

- (1) Describe the protein comprising the MHC
- (2) Describe the MHC locus
- (3) Compare and contrast the human and Mice MHC loci.

WEEK NINE

CAT TWO

WEEK TEN

- (1) What do you understand by cloning?
- (2) Give examples of two common vectors
- (3) Define the following:

Endonucleases

Exonucleases

Random cleavage

Extrinsic determinants

WEEK ELEVEN

- (1) Write concisely on cell surface antigen
- (2) What are the functions of the cell surface antigens
- (3) With diagrams, discuss the ABO blood group

WEEK TWELVE

- (1) With diagram, discuss the structure and function of cell membrane
- (2) The glycolipid and glycoprotein molecules are the active molecules in cellular recognition, reception and adhesions; discuss using the ABO blood group reactions.

WEEK THIRTEEN