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NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF AGRICULTURAL SCIENCES DEPARTMENT OF ANIMAL SCIENCE AND FISHERIES POP 2021_1...

COURSE CODE: ANP 312

COURSE TITLE: Genetics and Breeding

CREDIT UNIT: 2 CU

TOTAL SCORE: 70 MARKS **TIME ALLOWED:** 2 Hours

INSTRUCTIONS: ANSWER QUESTION 1 (30 MARKS) AND ANY OTHER TWO (20 MARKS

EACH)

1. (a) Differentiate between Mitosis and Meiosis (6 marks)

(b) Why is cell division necessary in living organisms? (9 marks)

(c) List ten different shape of cells (10 marks)

(d) What is the major difference between plant and animal cell? (5 marks)

- 2. (a) Explain what you understand by line breeding indicating the necessary pre-conditions for the success of line breeding? (8 marks)
 - (b) Describe briefly the composition of Nucleotides. (12 marks)
- 3. (a) Draw and label the different parts of a typical plant cell (10 marks)
 - (b) List some of the benefits that can be derived from a well organised artificial insemination programme. (10 marks)
- 4. (a) Briefly explain hybridization as a method of breeding cross-pollinated crops (14 marks)
 - (b) Differentiate between complete and partial dominance in inheritance of characters by individuals. (6 marks)