



National Open University Of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
Examination

BIO309- Plant Breeding

Time : 2 hours

Instructions: Answer 4 questions only .Question 1 is compulsory

- 1a. Why is plant breeding important (4marks)
- 1b. In a tabular form differentiate between Heterochromatin and Euchromatin (16 marks)
- 1c. Explain the term self-incompatibility(5marks)

- 2a. Explain the existence of male sterility in plants (8marks)
- 2b. List 3 features of female sterility (3marks)
- 2c. List four features of a cross pollinated plant (4 marks)

3. List the landmarks in the history of plant breeding (15 marks)

4. Write concise notes on the following
 - a. Chromosome number (8marks)
 - b. Chromosome size (7 marks)

5. a. Explain the term 'epidemic '(3 marks)
 - b. List 12 factors that stimulate the rise of a new epidemic (12 marks)