

**NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY**

FACULTY OF APPLIED SCIENCES  
BACHELOR OF SCIENCE HONOURS DEGREE EXAMINATIONS  
DEPARTMENT OF APPLIED BIOLOGY AND BIOCHEMISTRY

**SUPPLEMENTARY EXAMINATION:**

**GENETICS SBB 1204**

JULY 2005

2 HOURS (100 marks)

**INSTRUCTIONS**

Answer **Four (4)** Questions. Each question carries 25 marks. Where a question contains subdivisions, the mark value for each subdivision is given in brackets. Illustrate your answer where appropriate with large, clearly labelled diagrams.

1. Discuss the gene concept.
2. Explain the Sanger DNA sequencing method.
3. Write an essay on chromosomal aberrations.
4. Write an essay on point mutation.
5. Discuss meiosis and its role in genetics.
6. Write an essay on sex determination in animals.

**END OF EXAMINATION**

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