



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY  
SCHOOL OF AGRICULTURAL AND FOOD SCIENCES**

**THIRD YEAR SECOND SEMESTER UNIVERSITY EXAMINATION FOR THE  
DEGREE OF ANIMAL SCIENCE**

**2024/2025 ACADEMIC YEAR  
REGULAR**

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**COURSE CODE: AEB 9401**

**COURSE TITLE: INTELLECTUAL PROPERTY RIGHTS AND PATENTS**

**EXAM VENUE:**

**STREAM: BSc. ANIMAL SCIENCE**

**DATE:**

**EXAM SESSION:**

**TIME: 2 HOURS**

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**Instructions:**

- 1. Answer ALL questions in section A and ANY other 2 Questions in section B.**
- 2. Candidates are advised not to write on question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

## **SECTION A (30 MARKS)**

**Answer ALL questions from this Section**

1. Define the following Intellectual Property Rights (IPR) concepts: (5 marks)
  - a) Copyright
  - b) Patent
  - c) Trademark
  - d) Geographical indication
  - e) Trade Secret
2. Explain the nature and scope of Intellectual Property Rights. (5 marks)
3. Discuss the significance of patents in agricultural and biotechnology innovations. (5 marks)
4. Differentiate between product patents and process patents, providing relevant examples. (5 marks)
5. Explain the role of the World Intellectual Property Organization (WIPO) in global IPR protection. (5 marks)
6. Discuss recent amendments in Kenyan Acts and regulations related to Intellectual Property Rights. (5 marks)

## **SECTION B (40 MARKS)**

**Answer ANY TWO questions in this section**

7. Analyse the impact of the Trade-Related Aspects of Intellectual Property Rights (TRIPS) agreement on agricultural and biotechnology sectors. (20 marks)
8. Evaluate the role of the World Trade Organization (WTO) in shaping Intellectual Property Rights policies. (20 marks)
9. Discuss the current status and ethical considerations surrounding the patenting of genes and genetically engineered organisms. (20 marks)