

**SPECIFY TYPE OF  
EXAMINATION**

**FIRST ATTEMPT**   
**FIRST RESIT**   
**SECOND RESIT**   
**RE-TAKE**



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**SCHOOL OF AGRICULTURAL AND FOOD SCIENCES**  
**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF**  
**AGRIBUSINESS MANAGEMENT**  
**2<sup>TH</sup> YEAR SEMESTER 2023/2024 ACADEMIC YEAR**  
**SIAYA CAMPUS**

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**COURSE CODE: APT 3216**

**COURSE TITLE: PLANT PATHOLOGY**

**DATE:**

**TIME:**

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**Instructions:**

- 1. Answer ALL questions in Section A and B and ANY other TWO questions in Section C**



Registration No.....

**SECTION A: 20 Marks**

1. Define phytopathology **(2 marks)**
2. Describe a non-infectious disease giving or using an example. **(2 marks)**
3. What plant pathogen was responsible for the Irish famine in 1845? **(2 marks)**
4. Give two economic effects of plant disease on a crop enterprise? **(2 marks)**
5. Describe the term “**Colonization**” in a disease life cycle of a plant pathogen. **(2 marks)**
6. Define the following symptoms: @ half ( $1/2$ ) mark each **(6 marks)**
  - a) Chlorosis,
  - b) Mosaic,
  - c) Mottling
  - d) Hypotrophy
  - e) Blight
  - f) Dieback
  - g) Necrosis
  - h) Soft rot
  - i) Fasciation
  - j) Gall,
  - k) Canker
  - l) Leaf roll
7. Describe four types of chemicals used in plant disease control **(4 Marks)**

**SECTION B: 30 Marks**

1. Outline the Koch’s postulates and their importance in plant pathology **(5 Marks)**
2. Explain “quarantine” in plant disease control during epidemics **(5 Marks)**
3. Differentiate between “disease resistant” versus “disease tolerant” plants **(5 Marks)**
4. Briefly describe the epidemiology of viruses in plants. **(5 Marks)**
5. Describe two biological control methods used in organic farming **(5 Marks)**
6. Discuss plant disease inoculum dispersal **(5 Marks)**



Registration No.....

**SECTION C: 20 Marks Answer two questions. Question ONE and any other**

1. Describe the disease cycle of one of the plant diseases listed below: **(10 Marks)**
  - i. Late Blight
  - ii. Avocado Root Rot
2. Disease control is a key factor in plant health management; briefly describe plant disease control strategies. **(10 Marks)**
3. Explain briefly factors influencing disease infestation in plants **(10 Marks)**