



***“Investing in Africa’s future”***

**COLLEGE OF HEALTH, AGRICULTURE & NATURAL SCIENCES**

**NACP 502: ADVANCED PLANT PATHOLOGY**

**END OF FIRST SEMESTER FINAL EXAMINATIONS**

**NOVEMBER/ DECEMBER 2022**

**LECTURER: W. MANYANGARIRWA**

**DURATION: 3 HOURS**

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**INSTRUCTION**

**ANSWER ANY FOUR QUESTIONS**

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1. In what ways do meteorological conditions influence plant diseases?  
In your answer discuss why weather data is important for disease forecasting. [25]
2. Give and detailed practical and viable Integrated Management strategy against nematodes in the smallholder tobacco growing sector. [25]
3. On an extension visit, a farmer shows you a foliar disease on common bean (*Phaseolus vulgaris* L.) that is devastating his crop. Describe the procedures you would follow in a plant disease clinic to identify the causative agent of the foliar disease. [25]
4. Fungicides are an important weapon to control plant diseases. Give a detailed outline of the main fungicide groups and the situations in which they are used. [25]
5. With the use or relevant examples, discuss the measures that farmers can use in order to minimize the development of fungicide resistance in fungi. [25]
6. Seed health testing for fungi is a major tool in disease management. Outline the main techniques used to test for seed-borne fungi, citing appropriate examples of the target fungi. [25]
7. Describe a laboratory technique used to isolate both live and dead nematodes from a given soil sample. [25]
8. Explain the factors in the disease tetrahedron. In your answer clearly indicate the role that man plays within the disease tetrahedron. [25]

**END OF EXAMINATION PAPER**