



"Investing in Africa's Future"

COLLEGE OF HEALTH, AGRICULTURE & NATURAL SCIENCES

ACP 502 ADVANCED PLANT PATHOLOGY

END OF SECOND SEMESTER EXAMINATIONS

APRIL/MAY 2018

**MSC CROP PRODUCTION
WEEKEND PROGRAMME**

LECTURER: W. MANYANGARIRWA

DURATION: 3 HOURS

ACP 502 ADVANCED PLANT PATHOLOGY

INSTRUCTION

ANSWER ANY FOUR QUESTIONS

1. a) Discuss how you would test a sample of bean seeds for the presence of seed-borne fungi. [15]
b) With the use of illustrations, describe the procedure followed in the Koch's postulates. [10]
2. Give a detailed outline of the **main fungicide groups** used in crop production. In your answer cite relevant fungicides and their mode of action. [25]
3. Discuss the principles of an integrated disease management approach on a crop that you have studied in detail. [25]
4. From your knowledge of the **fungal disease cycle**, describe how a farmer can target the weak points to slow down or stop the development of a disease. [25]
5. Discuss the **host and pathogen** factors that are important in disease Epidemiology and indicate how human beings can manipulate these factors to reduce disease incidence. [25]
6. With the use of relevant examples, give a concise outline of the classification of (a) bacteria, and, (b) nematodes encountered in crop production [25]
7. Give a concise outline of the measures recommended in the management of nematodes on Zimbabwe's prime cash crop, tobacco. [25]

End of Exam Paper