

BOWEN UNIVERSITY IWO
COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE
MICROBIOLOGY PROGRAMME
2021/2022 FIRST SEMESTER EXAMINATION

MCB 415: PHYTOPATHOLOGY THEORY

Instruction: Answer any three (3) questions.

Time Allowed: 2h 15min

1.
 - a. What is a plant disease? (3 marks)
 - b. Differentiate between signs and symptoms of plant diseases. (4 marks)
 - c. Discuss **briefly** the 2 major ways by which plants resist infections (8 marks)
 - d. Discuss the fact that symptoms of plant diseases are manifestations of invisible malfunctioning of plant (10 marks)

2.
 - a. Briefly discuss the biological control mechanism of exploitation giving specific examples (12 marks)
 - b. Enumerate five (5) different sanitary practices that prevents the spread of pathogens from diseased plants to healthy plants. (5 marks)
 - c. Explain any two (2) regulatory control methods based on the principle of exclusion of pathogen and prevention of entry of pathogen into a region/country. (8 marks)

3. Discuss the five (5) major principles upon which plant disease control/management measures are based. (25 marks)

4.
 - a. Mention two viral and fungal diseases each of cassava and one bacterial disease of cassava (5 marks)
 - b. Describe the symptoms and management measures of the above-mentioned diseases. (20 marks)

5.
 - a. Explain the Koch's postulates in relation to the interaction between a pathogen and a host plant (13 marks)
 - b. Mention three common diseases of cotton plant. (3 marks)
 - c. State the uses of cotton plant and the effects of diseases on cotton production in Nigeria. (9 marks)