



EMBU UNIVERSITY COLLEGE
(A Constituent College of the University of Nairobi)

2015/2016 ACADEMIC YEAR

FIRST SEMESTER EXAMINATION

**FIRST YEAR EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE IN
CROP PROTECTION**

ACP 603: CROP DISEASE EPIDEMIOLOGY AND MANAGEMENT

DATE: 30th DECEMBER, 2015

TIME: 14:00-17:00

INSTRUCTIONS:

Answer ANY FOUR Questions

QUESTION ONE

- a) Explain five main requirements that must be met before a successful disease forecast is made (10 marks)
- b) What methods can be used to forecast the severity of plant diseases? (15 marks)

QUESTION TWO

- a) Describe classification of plant diseases based on the mode of multiplication of the pathogen (13 marks)
- b) How does integrated plant disease management benefit sustainable agriculture? (12 marks)

QUESTION THREE

Give a detailed account on the key elements of a plant disease epidemic (25 marks)

QUESTION FOUR

Describe monocyclic and polycyclic disease models showing how they affect the overall outcome of an epidemic (25 marks)

QUESTION FIVE

Discuss eradication as a plant disease control strategy (25 marks)

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