



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2011/2012
INSTITUTE OF OPEN, DISTANCE AND E-LEARNING
FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE AND BACHELOR OF EDUCATION
SBT 303: PRINCIPLES OF PLANT PATHOLOGY

DATE: Thursday 15th December, 2011

TIME: 4.30 p.m. – 6.30 p.m.

INSTRUCTION

Answer ALL question in section A and any ONE question in Section B. Answers in Section A should be written in the spaces provided in the question paper.

SECTION A – SHORT ANSWERS: 5 MARS EACH)

1. Briefly describe how pathogens interfere with translocation of water in plants.

2. How have the following persons influenced the development of Plant Pathology?

a) Van Leeuwenhoek

b) Millardet

c) Tillet

d) De Barry

e) Theophrastus

3. How does *Agrobacterium tumefaciens* cause the crown gall disease?

5. State the qualities of a good plant disease biocontrol agent.

6. How does post-emergence damping off of seedlings occur?

7. Give a summary of the root symptoms caused by plant pathogenic nematodes.

8. Discuss the role of dodder (*Cuscuta spp*) on transmission of plant viruses.

SECTION B: ESSAYS - (30 MARKS)

1. Discuss the effects of pathogens on the physiology of plants.
2. Describe plant disease cycle.
3. Write an essay on biochemical plant defences.

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