



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2010/2011
INSTITUTIONAL BASED PROGRAMME (IBP) (AUGUST SESSION)
EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE
SBT 592: PLANT NEMATOLOGY

DATE: Friday 30th December 2011

TIME: 9.00a.m- 12.00p.m

INSTRUCTIONS:

ANSWER ANY FOUR QUESTIONS

1. a) Discus important steps involved in sampling and collection of nematode samples.

 b) Discuss in detail the two methods commonly used in extraction of plant parasitic nematodes.
2. Discuss important morphological characteristics that are used to differentiate the lesion nematodes (*Pratylenchus spp.*) from the burrowing nematodes (*Radopholus spp.*).
3. What are the possible above-ground and below-ground symptoms associated with plant parasitic nematodes? What are the signs of the nematodes that you could use to identify damage by plant parasitic nematodes?
4. After graduation, you get a job as a Plant Nematologist, Kahawa Flowers LTD (K). Outline the most important principles you would employ to prevent nematode problems. Outline the steps you would follow in developing a nematode IPM program that will be economical and effective.
5. Discuss and illustrate important morphological characteristics that are used to identify and classify plant parasitic nematodes.