KERALA AGRICULTURAL UNIVERSITY

Time: 3 hours

B.Sc (Hons.) Ag. 2012 Admission VI th Semester Final Examination- July /August -2015

Cat. No: Ento.3204	Marks: 80
Title: Plant parasitic Nematodes other	er non Insect pests & their Management (1+1)
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Fill up the blanks	10 x 1 = 10
i iii up tile blutille	
The first ever reported plant	parasitic nematode was
2. The subclass Acari consists	
3 In root knot nematodes the	stage juveniles are infective
Mitos can be differentiated f	rom ticks by the absence of
present in the first ta	rsus.
5 Plant parasitic nematodes a	cts as in the disease complex
	e consists of two main regions <i>viz.</i> ,
and	
The commercially available	bacterial nematode biocontrol agent is
	and forth
	nd feeds on many grains and fruits
9. Give : an example for a phy	
10/ is a carbamate nematode control.	e granular nematicide widely used for
I. Write short notes / answers et	c. on any <u>TEN</u> $10 \times 3 = 30$
1. Differentiate the stomato	stylet and odonto stylets In nematodes.
What are the cuticular str	uctures of nematodes?
3. Differentiate Astigmata a	nd Prostigmata
	caused by plant parasitic nematodes?
Differentiate Squirrels ar	
	of formation of gall due to the feeding of root

- 7. Give the Action of the following
 - a) Fenazaquin
- b) Carbofuran
- c) Zinc Phosphide
- 8. How will you manage Giant African Snail
- 9. Write down the skeletal classification of plant parasitic nematodes up to family level.
- 10. What are predatory nematodes?
- 11. Enumerate Bird pests of fruits
- 12. Enumerate the biocontrol agents used to manage plant parasitic nematodes

III. Write short essays on ANY SIX of the following

 $6 \times 5 = 30$

1. Describe the Oesophagus of a typical plant parasitic nematode with suitable illustration and their types

Describe the biology of any sedentary endoparasitic nematode

Differentiate Eriophidae and Tetranychidae

Describe the nature of damage and biology of brood mite on chilli.

Suggest suitable acaricide for the control

- Describe the symptoms of damage, host range and management of migratory endoparasitic nematodes in high density multi species cropping system of Kerala
- Briefly discuss the damage caused by vertebrate pest on crops

 Discuss Rodant management practices under Kerala Agro ecosystem conditions.
 - 8. Describe the external morphology of mite with a neat diagram

IV. Write essay on ANY ONE

 $1 \times 10 = 10$

1. Nematode parasites associated with banana, symptoms of damage, their association with other organisms and management practices.

List out the mite pests of fruit crops in Kerala. Describe the nature of damage,s biology and management practices for any two