



**KERALA AGRICULTURAL UNIVERSITY**  
**B.Sc. (Hons.) Ag. 2016 admission**  
**VI Semester Final Examination - July-2019**

Nema.3201

**Plant parasitic nematodes and their management (1+1)**

**Marks: 50**  
**Time: 2 hours**

**(10x1=10)**

**I**

**Fill in the blanks**

- 1 ..... is a finger like projection projecting into the intestinal region.
- 2 Gelatinuous matrix of citrus nematode is secreted by.....
- 3 Day wilting is caused by.....
- 4 The physical method which is recommended for the management of nematodes in the nursery.....
- 5 The lifecycle of nematodes has.....stages.

**State True or False**

- 6 The potato cysts are lemon shaped.
- 7 Reniform nematode is a sedentary semi endo parasite.
- 8 'Slow decline' disease in citrus is due to *Tylenchulus semipenetrans*.
- 9 Odonto stylet/ onchiostylet is derived from oesophagous.
- 10 Ufra disease in rice is caused by *Aphelenchoides besseyi*.

**II**

**Write short notes on ANY FIVE of the following**

**(5x2=10)**

- 1 Functions of Microvilli.
- 2 Giant cell.
- 3 NEPO and NETU virus.
- 4 Soil solarization.
- 5 Role of amphids.
- 6 Trap crops with example.
- 7 Fumigant Nematicide.

**III**

**Answer ANY FIVE of the following**

**(5x4=20)**

- 1 Trace the development of Nematology in India mentioning only the milestones in history.
- 2 Elaborate the reproductive system of nematodes with illustrations.
- 3 List out the nematodes associated with banana with their symptoms of damage and their management.
- 4 Write in detail about four below ground symptoms of nematode damage with examples.
- 5 Differentiate between Secernentea and Adenophorea.
- 6 Discuss about the role of organic amendments in nematode management.
- 7 Write the biology of root knot nematode with illustrations.

**IV**

**Write an essay on ANY ONE of the following**

**(1x10=10)**

- 1 List out the different methods of nematode management and explain biological control of nematodes.
- 2 Write about the interaction of nematodes with other micro-organisms with examples.

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