

(4)

Total Pages—4

B.Sc. (Ag)—IIS (PP-122)

(ix) Tulip shaped stylet knob is present
in _____ nematode.

(x) Biological model nematode is _____.

2019

(2nd Semester)

Time : 2 hours

Full Marks : 50

Answer all questions

*The figures in the right-hand margin indicate marks
Candidates are required to answer in their own words
as far as practicable*

(FUNDAMENTALS OF NEMATOLOGY)

1. Describe in brief *all* questions : $7\frac{1}{2} \times 4$
- (i) Illustrate the basic plan on organisation of various organ systems in nematode body structure with neat and labelled diagram.
 - (ii) Write down the history of development of nematology in India.

(2)

- (iii) Write down the definition of nematode and explain all the terminologies in brief.
- (iv) Explain the harmful effects of nematodes in brief with example.
 - (a) Write the important functions of cuticle.
 - (b) Explain hypodermis of nematode with example.
 - (c) Lip arrangement of adenophorean-nematode.

2. Write short notes any five from the following : 2×5

- (i) Sexual dimorphism
- (ii) Imperfect Ecdysis
- (iii) IMP
- (iv) Perineal pattern
- (v) Amphid
- (vi) Leptoderan caudal alae
- (vii) Platymyarian muscle.

(3)

3. Fill in the Blanks : 1×10

- (i) During movement of nematode in soil _____ determine the soil pore size.
- (ii) _____ is called as exoskeleton of nematode body.
- (iii) _____ nematode bent towards dorsal side.
- (iv) Largest nematode _____.
- (v) Grapevine fan leaf virus transmitted by which nematode _____.
- (vi) One gram of soil contain about _____ numbers of nematodes.
- (vii) Large plate like phasmid without having any external opening is _____.
- (viii) Hypodermis triggers moulting by secreting _____ enzyme.