

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD**SEMESTER END THEORY EXAMINATION****B.Sc.(Hons.) Agriculture**

Semester	: III (New)	[ICAR - Sixth Deans' Committee Syllabus]	Acad. Year	: 2025-26
Course No.	: NEMA-231	Title	: Fundamentals of Nematology	
Credit Hrs.	: 2(1+1)			
Day, Date	: Tuesday, 23.12.2025	Time	: 10:00 to 12:00 hrs.	Total Marks : 40

Note: Draw neat diagram wherever necessary.

SECTION 'A' : Questions with Descriptive Long Answers (Any 4)**Marks**

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|-----|--|---|
| Q.1 | Describe the economic importance of nematodes in Agriculture. | 6 |
| Q.2 | Define Nematode. Give the general characteristics of plant parasitic nematodes. | 6 |
| Q.3 | Explain the female reproductive system of nematodes with a labeled diagram. | 6 |
| Q.4 | Enlist different symptoms caused by nematodes. How plant parasitic nematodes are classified on the basis of their feeding habit? | 6 |
| Q.5 | a) Enlist different methods of nematode management. | 2 |
| | b) Explain the interaction of plant parasitic nematode with virus and bacteria. | 4 |
| Q.6 | a) Give the Scientific name, Family, Host and Feeding habit of root knot nematode. | 3 |
| | b) Write the symptoms and management strategies for <i>Tylenchulus semipenetrans</i> . | 3 |

SECTION 'B' : Questions with Descriptive Short Answers (Any 4)

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|------|--|---|
| Q.7 | Write in short the symptoms of reniform nematode on pulses. | 2 |
| Q.8 | Classify the Phylum Nematoda upto Order level. | 2 |
| Q.9 | Enlist any four nematodes infesting cereals with their Scientific names. | 2 |
| Q.10 | Enlist different cultural practices for nematode management. | 2 |
| Q.11 | What is EPN? Write its examples. | 2 |

SECTION 'C' : Objective-type compulsory Questions

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|------|--|---|
| Q.12 | Do as directed: | 4 |
| | 1) Which systems are absent in nematode? | |
| | 2) Stubby roots are caused by _____. | |
| | 3) Define: Helminthology. | |
| | 4) Hypodermis is also called as _____. | |

- Q.13 Match the pairs:

'A'	'B'
1) Burrowing nematode	a) <i>Heterodera zeae</i>
2) Cyst nematode	b) <i>Radopholus</i> sp.
3) N.A. Cobb	c) Wheat seed gall nematode
4) Needham	d) Father of American Nematology

