# Padmashree Dr. D. Y. Patil College of Agriculture A/P: Talsande, Tal: Hatakangle, Dist.: Kolhapur

Pin Code: 416 112

### MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNI SEMESTER END EXAMINATION

### B.Sc. (Agri.)

Term : II Academic Year : 2010-11 : VI (New) Semester Title: Introductory Nematology : ENTO 364 Course No. : 2(1+1) Credits Time : 09.00 to 11.00 Total Marks : 40 : Thursday, 28.04.2011 Day & Date Solve ANY EIGHT questions from SECTION "A". Note: All questions from SECTION "B" are compulsory. All questions carry equal marks. Draw neat diagrams wherever necessary.

#### SECTION "A"

- Classify nematodes with examples based on the place of plant where the Q.1 nematodes attack / feeding.
- Explain in detail the digestive system of nematodes. Q.2
- Name the different methods of nematode management and explain the cultural Q.3 method of nematode management.
- Write characteristics and symptomatology of the genus Heterodera and Globodera. Q.4
- Enlist general characteristics of plant parasitic nematodes. Q.5
- Write in detail the symptoms of damage by plant parasitic nematodes with one example. Q.6
- Explain the role of nematodes as a vector in transmission of plant diseases. Q.7
- Elaborate in brief the scope and economic importance of nematodes in Agriculture. Q.8
- Explain morphological characters of male and female nematodes. Q.9
- Write short notes (Any two):
  - 1) Male reproductive system of nematodes.
- 2) Integrated Nematodes Management

Kolhapur

Biological control of nematodes.

#### SECTION "B"

Q.11 Match the pairs:

"A"

"B"

- Kidney shaped females
- Physical method of nematodes control
- Hot water treatment
- Meloidogyne
- Root golling in crops
- Ear cockle disease in wheat
- Anguina tritic
- Rotylenchulus reniformis
- Do as directed:
  - 1) Define Agricultural nematology
  - Define helminthology
  - 3) Name the nematological journal published in India.
  - 4) Name the reference book on nematology along with author.



### MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END EXAMINATION

B.Sc. (Agri.)

Seme		ster : VI (New) Term : II Academic Year : 2012-13									
	Cours	se No. : ENTO 364 Title : Introductory Nematology									
	Credi										
	Day &	E Date : Saturday, 27.04.2013 Time : 09.00 to 11.00 Total Marks : 40	Ĺ								
		Note: 1. Solve ANY EIGHT questions from SECTION "A".  2. All questions from SECTION "B" are compulsory.  3. All questions carry equal marks.  4. Draw neat diagrams wherever necessary.									
	SECTION "A"										
	Q.1	Enlist the general characteristics of plant parasitic nematodes.									
	Q.2	Classify the phylum Nematoda upto order level and state the characters of Order Tylenchida.									
7	Q.3	State in brief the economic importance of plant parasitic nematodes in agriculture.									
100	Q.4	Describe in brief the disease symptoms caused by plant parasitic nematodes with one example.									
	Q.5	Classify the nematodes on the basis of parasitism or feeding habitat with suitable examples.									
	Q.6	Enlist the disease causing interaction between plant parasitic nematodes with different pathogens and describe in detail the nematode-fungus interaction.									
	Q.7	Explain in detail the female reproductive system of nematode with suitable well labeled diagram.									
	Q.8	Enumerate the morphological characters and biology of nematodes.									
	Q.9	Name the different methods of nematode management and describe in brief cultural method of nematode management.									
Pin Code: 416 112	Q.10	Write short notes on (Any Two)									
		1) Soil solarization									
Cod		2) Entomopathogenic nematode 2) Pistoria la significación de la s									
Pin		Biological method of nematode management     Characteristics and rematode management									
		4) Characteristics and symptoms of the genus Meloidogyne									
		SECTION "B"									
	Q.11	Do as directed.									
		1) Define nematodes.									
	ļ	2) Who is the father of American nematology?									
		3) Who reported the first plant parasitic nematode in the world?  4) In which year Division of Nematolessy was notablished at 14 DY N. D. W.									
	0.12	<ol> <li>In which year Division of Nematology was establishment at IARI, New Delhi.</li> <li>Fill in the blanks.</li> </ol>									
	Q.12	The cloacal aperture in the male is known as									
		2) help in holding the female during copulation.									
	†ii	3) Plant nematodes are parasite.									
		4) are the chemosensory organs located in the head region and play a									
		vital role in host finding.									

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### B.Sc. (Agri.)

					,	,	78			
Semest			VI (New)	Tern			emic Year : 2013-14			
Course		-	ENTO 364	Titl	e :	Introductory Ne	matology			
Credits		:	2 (1+1) Wednesday, 07.05.2014	Tim		: 09.00 to 11.00	Total Marks : 40			
Day &	Note :	1	Solve ANY EIGHT questi				100000000000000000000000000000000000000			
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		3.					28			
		4,		ver nece						
	<b>C</b> :						around norte with one			
Q.1			e different symptoms of reach.	nematoo	ie c	iamage on below	ground parts with one			
Q.2	Defin	ne N	lematology. Enlist general	characte	erist	ics of plant parasi	tic nematodes.			
Q.3	Write	e the	e general morphology of pl	ant para	sitio	c nematode.				
Q.4	a) Gi	ve t	he biology of plant parasiti	c nema	tode	es.	*)			
	b) W	rite	in short in vivo production	of EPN	٧.,		* *			
Q.5	Diffe	ren	tiate Entomopathogenic ner	matode	and	Plant parasitic ne	matode.			
Q.6	Enlis meth		ifferent methods of nema	atode r	nana	agement. Write i	n detail about physical			
Q.7	Expl	ain	in short the different cultur	al meth	ods	of nematode mana	agement.			
Q.8	Describe the classification of plant parasitic nematodes on the basis of habitat with one example each.									
Q.9	Give	the	classification of nematode	s up to	orde	ers.				
Q.10	Give	the	history of Nematology in 1	India.						
			S	ECTIO	N "I	в"	κ)			
Q.11	Macl	ı th	e pairs.				*)			
	.*		"A"			"B"				
1.	1)	Bu	rrowing nematode	a)	Po	tato				
	2)	Go	lden nematode	b)	Rh	adinaphelenchus	cocophilus			
*5	3)	Ne	crosis on coconut stem	c)	An	iguina tritici				
	4)	Ea	r cockle disease of wheat	d)	Ra	dopholus similis	T.			
Q.12	Fill	in th	ne blanks.			.0	20			
	1) W	hen	the nematodes have two or	varies,	then	it is called as	<u> </u>			
		- 23	hylum Nematoda is divided			25				
	3) Th	ie e	xample of entomopathogen	ic nema	atod	e is				
48	4) Th	e n	ematodes parasitic on man	and do	mest	ticated animals are	e studied under			
			* E.				2 <sup>(1)</sup>			



### MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester	:	VI (New)	Term	:	II Aca	demic Year	: 2	2014	-15	
Course No.		ENTO 364	Title	:	Introductory N	lematology	÷:			
Credits	:	2 (1+1)								
Day & Date	;	Tuesday, 19.05.2015	Time	:	09.00 to 11.00	Total N	Mark	s:	40	_

Solve ANY EIGHT questions from SECTION "A".

- All questions from SECTION "B" are compulsory.
- All questions carry equal marks.
- Draw neat diagrams wherever necessary.

### **SECTION "A"**

- Explain in detail male and female reproductive system of nematode. Q.1
- Give detail account on interaction of nematodes with microorganisms with suitab Q.2 example.
- Write in detail historical events in Nematology. Q.3
- Define entomophillic nematode. Give mass production techniques for EPN in-vivo. Q.4
- Enlist different methods of nematode control. Describe in detail cultural method Q.5 with suitable example.
- Describe classification of plant parasitic nematodes on the basis of habitat with Q.6 suitable example.
- Write short notes on (Any two). Q.7
  - 1) Economic importance of nematodes in Agriculture
  - 2) Excretory system of nematodes
  - 3) Cuticle of nematode
  - Write characteristics and symptoms of genus Radopholus and Ditylenchus. 8.
  - Explain in detail inner body tube nematode.
  - Give the classification of nematodes up to orders.

#### SECTION "B"

- Do as directed.
  - 1) Give casual organism of Ufra disease of rice.
  - (Fill in the blank). 2) The stylet of Tylenchid nematode is called as\_
  - 3) State the family of genus Meloidogyne.
  - 4) UPAS 120 and Prabhat varieties of pigeon pea are resistant against nematode. (Fill in the blank).
- State True or False and correct if, necessary. Q.12
  - 1) Dastur discovered the nematicidal properties of DD.
  - 2) Paralongidorous is the largest plant parasitic nematode.
  - 3) The male nematode with two testes is called as Diorchic.
  - 4) Rotylenchulus reniformis is sedentary semi-ectoparasite.

***	4	<b>*</b>	<b>*</b>	<b>*</b>	٠		<b>*</b>	<b></b>	<b>*</b>	≺
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