Seat No:	Enrollment No:
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PARUL UNIVERSITY

COLLEGE OF AGRICULTURE

B.Sc.(Hons.) Agriculture, Summer 2017-18 Examination

Semester: 2 Date: 15/05/2018

Subject Code: 20107151 Time: 10:30 am to 1:00 pm

Subject Name: Introductory Nematology Total Marks: 60

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Inc	trn	ctio	ns

- 1. All questions are compulsory.
- 2. Figures to the right indicate full marks.
- 3.
- 4. \$

	ke suitable assumptions wherever nec t new question on new page.	essary.			
Q.1	Do as Directed.		(10)		
\mathbf{A} .	. Fill in the blanks.				
	 Nematicidal properties of DD mixture was discovered by Xiphinema sp. transmitted disease was reported first time in plants. 				
	3. White tip of rice was first time r	eported by in India.			
	4. Citrus nematode was first time	reported by in India.			
		in nature (parasitic term).			
	6stage	of nematode is only infective.			
	7 generations of root knot nematodes per year. 8 & chemicals are released under flooded conditions.				
	9. Nematodes having only one gen	eration per year is known as			
	10.Red ring nematode attacks on _	plantings.			
B	. Multiple choice type questions.		(10)		
	1 discovered nem	naticidal properties of DD mixture.			
	a) Carter	c) Chitwood			
	b) Tom Goodey	d) Christie			
	2 reported ufr	ra disease of rice.			
	a) Dastur	c) Vasudeva			
	b) Butler	d) AM Khan			
	3 reported white tip disease of rice.				
	a) Dastur	c) Vasudeva			
	b) Butler	d) AM Khan			
	4stage is only infective in nematodes.				
	a) 1 st	c) 3 rd			
	b) 2 nd	d) 4 th			
	a) 1	c) 3-5			
	b) 1-2	d) 7-8			
	6. Root-knot nematodes reproduce through				
	a) Sexual reproduction	c) Parthenogenesis			
	b) Both A & B	d) None of the above			
	7. Scientific name of root-knot ne	ematode is			
	a) <i>Heterodera</i> spp.	c) Meloidogynespp.			
	b) Anguinaspp.	d) Trichodorusspp.			
	8. Example of above ground feed:	*			
	a) Heteroderaspp.	c) Meloidogynespp.			
	b) Anguinatritici	d) Tylenchulusspp.			

	9. Example of sedentary endoparas	itic is	
	a) Heteroderaspp.	c) Meloidogynespp.	
	b) Globoderaspp.	d) All of the above	
	10. Use of quarantine method for nematode management comes under		
	a)Regulatory method	c) Cultural method	
	b)Physical method	d) Biological control	
Q-2.	A. Define the following. (Any five)		(05)
	1. Sedentary endoparasite		
	2. Antagonistic crops		
	3. Flooding		
	4. Stylet		
	5. Fallowing		
	6. Quarantine		
	7. Root-knotting		
В.	Answer the following. (Any five)		(05)
	1. Name three reference books relate	ed to this course.	
	2. Explain meaning of word Nematol	logy.	
	3. Define: Nematode		
	4. Enlist important characteristics of	nematodes.	
	5. Give contribution of T. Needham.		
	6. Give examples of below ground fe	eeding nematodes.	
	7. Define: Quarantine.		
Q.3	Write short notes. (Any five)		(15)
	1. Draw typical labelled diagram of r	nematode.	
	2. Give important characteristics of a	root knot nematodes.	
	3. Explain below ground symptoms	caused by nematodes.	
	4. Give contributions of followings:	N A Cobb, Atkinson, Siddiqui and Ritzema-Bos.	
	5. Explain: Soil solarization.		
	6. Enlist different cultural methods u	sed for nematode management	
Q.4	Long questions (any three)		(15)
	1. Write down different between NE	PO vs NETU.	
	2. Write down different between Che	emical control vs Cultural control	
	3. Write down different between Ect	oparasitic nematode vs Endoparasitic nematode	
	4. Explain different types of nemator	des on the basis of their parasitic characters	