P P SAVANI UNIVERSITY

2nd Semester of B.Sc. (Hons.) Agriculture End Semester Examination
December - 2022
SGAG1160-Introductory Plant Nematology
22, Wednesday Time: 10:00 a.m. to 12:00 p.m. Maximum Marks: 50

21.12.2022, Wednesday

Instr 1. 2.	Dr	ion: aw a neat and labeled diagram whene art new questions from new page.	ver i	t is required.			-
Q.1 1.1	M	ultiple choice questions (01 mai he body colour of plant parasition	rk e	ach)	(15)	СО	BTL
	a.	Green		Colour less		2	1
	b.	Red	d.				
1.2	0	ne ovary present, to anterior sid	le of			2	2
	a.	Didelphic Prodelphic		Monodelphic		,	2
	b.	Monodelphic Prodelphic		Ophithodelphic None			
1.3	Lo	ongest plant parasitic nematode	is			2	1
	a,	Hetrodera spp.		Longidorus spp.		-	1
	b.	Globodera spp.		None	,		
1.4	In	plant parasitic nematodes, oral	ope	ning surrounded with		2	1
	a.	6 lips	C.			_	
	b.	8 lips	d.	12 lips			
1.5	Sti	ng nematode is		Parties and Committee		2	1
	a.	Cricone mella sp.	c.	Longidorus sp.			
	b.	Belonolaimus	d.	Xiphinema sp.			
1.6	Rin	ng nematode is				2	1
	a.	Criconcmella	C.	Hetrodera			
	b.	Belonolainas	d.	None			
1.7	W	nich species is known as spiral ne	mat	ode		2	2
	a.	Heterodera spp.	c.	Xiphinema spp.			-
	b.	Meloidogyue spp.	d.	Helicotylenchus sp.			
1.8	Ou	t of total nematode, plant parasi				2	2
	a.	15%	C.				-
	b.	20%	d.	10%			
1.9	NE	TU Viruse is transmitted by				1	3
	a.	Xiphinema sp.	c.	Paratrichodorus sp.		•	3
	b.	Trichodorus sp.		Both B & C			

1.10	Size of male of plant parasitic nematode is				2	2
	a. Equal to female nematode	C.	Smaller than female			
	b. Bigger than female nematode	d.				
1.11	Sedentary semiendoparasitic nema	atode	is		2	1
	a. Rotylenchulus sp.	C.	Tylenchus sp.			
	b. Both A and B	d.	None			
1.12	Pear shaped Nematode				2	1
	a. Hetrodera spp.	c.	Meloidogyne spp.			
	b. Globodera spp.	d.	None			
1.13	Root-knot Nematode				2	1
	a. Hetrodera spp.	c.	Meloidogyne spp.			
	b. Globodera spp.	d.	None		1	
1.14	Onchio stylet is present in				2	2
	a. Dagger nematode	C.	Needle nematode			
	b. Root-knot nematode	d.	Both A and B			
1.15	Part of nerves system of plant par	asiti	c nematode is		2	1
	a. Stylet	c.	Intestine			
	b. Ampulla	d.	Derid			
Q.2	Define/ Explain (Attempt any six-	01 m	arks each)	(06)		
2.1	Sedentary ectoparasites				2	1
2.2	Migratory endoparasite				2	1
2.3	Helminthology				1	1
2.5	Nematodes Sex reversal				1	1
2.6	Leaf discolouration				3	1
2.7	Stunting				3	1
2.8	Full form of NEPO – virsus				1	2
						-
Q.3	Blanks (01 mark each)			(05)		
3.1	circulatory and respiratory systems	are at	osent but governed by the		1	2
	fluid.					
3.2	Nematodes are	in	nature.		2	2
3.3	Father of Helminthology is				1	1
3.4	The length of the nematode may var	У			2	1
	fromto					
3.5	Nematodes reproduce by		reproduction.		1	1
				0	2 52	

Q.4	Short notes (Attempt any six- 02 marks each) (12)	
4.1	Difference between root galls and root nodules	2	1
4.2	Describe Nematode – fungus Interaction	1	3
4.3	Draw a labeled figure of a male Nematode	1	3
4.4	Enlist 10 historical events in the field of plant nematology	1	1
4.5	Draw a vertical Section of the Nematode body tube	2	3
4.6	Function of the digestive system	2	1
4.7	Describe the parts of the nematode body	2	3
4.8	Describe Nematode –virus Interaction	3	1
Q.5	Answer the following questions in detail (Attempt any three- 04 (12) /	
	marks each)		
5.1	Write down the lifecycle of root-knot nematodes	1	3
5.2	Common characteristics of members of the phylum Nemata	2	2
5.3	Explain the reproductive system in nematodes	1	2
5.4	Describe the ecological classification of above-ground feeders with	1	1
	examples		
5.5	Describe Symptoms produced by above-ground feeding nematode	2	2

co : Course Outcome Number

BTL : Blooms Taxonomy Level

Level of Bloom's Revised Taxonomy in Assessment

1: Remember	2: Understand	3: Apply
4: Analyze	5: Evaluate	6: Create