

			TY, ODISHA, T UNIVERS ster) Examina	GUNUPUR ITY) ations, November – 2024	
Time: 2 hrs Maximum: 50 Marks					
The figures in the right-hand margin indicate marks. PART – A					
Q.1. Fill in the blanks with suitable word / figure.				(0.5 x 10 = 5 Marks)	
a.	Tundu disease	of wheat is caused by the nematode _	•		
b.	b. Male root knot nematodes are in shape				
c.	c. The life cycle of nematode has stages				
d.	d. Nematode suck the sap of the plant with the help of				
e.	Vector of grape vine fan leaf virus				
f.	The association between <i>Meloidogyne spp.</i> and Fusarium complex was first reported by				
g.	A flat type of cell with contractile elements limited in places to the base lying close to the epidermis is type of somatic musculature.				
h.					
i.	In Adaparture, the stulet is thought to be derived from a testh and therefore, it is called as				
j.	Stoma is the portion of the inner body tube lying between the and				
Q. 2	. Define (or) E	xplain the following in one or two se	entences.	(1 x 5 = 5 Marks)	
a. Necrosis					
b.					
c.	c. Migratory endo parasites				
d.	d. Longitudinal alae				
e.	Somatic musc	ulature			
Q3. Match the following (0.5 x 10 = 5 Mark					
		Column – A		Column – B	
	(a)	Tundu disease	(i)	40 days	
	(b)	quarantine	(ii)	Clavibacter tritici	
	(c)	Nematode fungus interaction	(iii)	Antagonistic effect	
	(d)	α - terthinyl	(iv)	Atkinson	
	(e)	Tomato black ring	(v)	Dagger nematode	
	(f)	Taenia solium	(vi)	Longidorus spp.	
	(g)	Xiphinima spp.	(vii)	Pratylenchus spp.	
	(h)	Hoplolaimus spp.	(viii)	Foliar nematode	
	(i)	Lesion nematode	(ix)	Tape worm	

(x) Lance nematode

Aphelenchoide spp.

(j)

Q4. Write True or False against each statement

- a. Arrest of the growth of lateral roots is known as stubby roots.
- b. Nematode eggs are covered by four membranes.
- c. The immature stage of the nematode is called as juvenile.
- d. Red ring disease on Coconut caused by Rahadinaphelenchus cocophilus.
- e. Adenophorea class are also known as Aphasmida.
- f. Tundu disease of wheat is associated with the bacteria Anguina tritici and the nematode Clavibacter tritici.
- g. Emergence of the juvenile from the egg is known as Moulting.
- h. Stunting symptoms seen in below ground plant parts.
- i. Adenophorea class are also known as Aphasmida.
- j. A book on "Plant parasitic nematodes and the diseases they cause" was written by Carter.

PART – B

Attempt ANY FIVE questions. All question carries equal marks(6 x 5 = 30 Marks)

- 5. Write down the diagnostic characters of class Secernenta and Adenophorea.
- 6. List down the different methods of nematode control and briefly describe about the cultural methods of nematode control.
- 7. Briefly describe about the biology of root knot nematodes with well labelled diagram.
- 8. Enlist the characteristics of members of phylum Nemata along with enlist name of nine genera of the most important plant parasitic nematodes.
- 9. Explain about different categories of cuticular markings present in plant parasitic nematodes.
- 10. Write about the male reproductive system of nematode with labelled diagram.

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