QPC:	AR-

- 19	Reg. No					

 $(10 \times 0.5 = 5 \text{ Marks})$



Q3. Match the following

GIET UNIVERSITY, GUNUPUR – 765022

B. Sc (AG) (Third Semester - Regular) Examinations, December - 2020

PPT 212 - Fundamentals of Nematology

Time: 2 hrs Maximum: 50 Marks

The figures in the right hand margin indicate marks.

PART - A

<u>Q.1.</u>	. Fill in the blanks with suitable word / figure.	$(10 \times 0.5 = 5 \text{ Marks})$
a.	is known as seedgall nematode	
b.	In male nematode, the rectum joins with the hind part of the testis forming a co	ommon opening known
	as	
c.	White tip of rice is caused due to	
d.	Anguina tritici causesdisease of wheat	
e.	In, Adenophorea, the stylet is called as	
f.	The name nematode was derived from Greek words and	·
g.	The first plant parasitic nematode is known as	
h.	Region of female reproductive system where sperm are stored after copulation is	·
i.	In, Secernentea, the stylet is called as	
j.	Study on animal and human parasites are known as	
_	2. Define (or) Explain the following in one or two sentences. unctions of digestive system	$(5 \times 1 = 5 \text{ Marks})$
b. C	Cuticle	
c. sc	omatic musculature	
d. E	xamples of five helminthes with scientific name	
e. O	esophagus	

	Column – A		Column – B				
(a)	cyst nematode		(i)	Paratylenchus spp			
(b)	Pin nematode		(ii)	1859			
(c)	Burrowing nematode	((iii)	N.A. Cobb			
(d)	Schacht	((iv)	Longest nematode			
(e)	Paralongidorus		(v)	Plant nematode			
(f)	stem and bulb nematode	((vi)	Radopholus similis			
(g)	Nematology	(vii)	Meloidogyne spp			
(h)	Root – knot nematode	(v	/iii)	Ditylenchus dipsaci			
(i)	Father of American Nematology	((ix)	Ditylenchus angustus			
(j)	Ufra disease		(x)	Globodera spp.			

QPC:

AR- 19

Reg. No					

Q4. Write True or False against each statement

 $(10 \times 0.5 = 5 \text{ Marks})$

- a. Study on animal and human parasites are known as Plant Nematology. (T/F)
- b. Paratylenchus spp. is also known as lesion nematodes. (T/F)
- c. Sexual dimorphism is observed in Meloidogyne, Heterodera and Globodera spp.(T/F)
- d. Monodelphic ophisthodelphic condition is found in case of *Xiphinema spp*. (T/F)
- e. In Tylenchid type of excretory system a single tube runs throughout the nematode body length. (T/F)
- f. In female nematode, the rectum joins with the hind part of the testis forming a common opening known as cloaca. (T/F)
- g. Digestive system of nematodes includes only Stomodeum (T/F)
- h. There are three types of somatic musculature. (T/F)
- i. Nematode are bilateraly symmetrical. (T/F)
- j. Odontostylet is present in the class Adenophorea (T/F)

PART - B

Attempt ANY FIVE questions. All question carries equal marks

 $(6 \times 5 = 30 \text{ Marks})$

- 5. Explain about female reproductive system of nematode with suitable ray diagram.
- 6. Write about structure and function of nervous system of nematode
- 7. Describe biology of nematodes and the process of embryogenesis
- 8. Write about symptoms, biology, spread of diseases and integrated nematode management of economically important nematodes affecting vegetables.
- 9. Explain about different parts of digestive system. What are the important functions of digestive system of nematode
- 10. Explain about male reproductive system of nematode with suitable ray diagram.

--- End of Paper ---