QP Code: R253H012 | Reg. No | | | | | | | | | | | AY 24

Gandhi Institute of Engineering and Technology University, Odisha, Gunupur (GIET University)

B. Sc. (Ag.) (Third Semester - Regular) Examinations, November – 2025

NEM-211 – Fundamentals of Nematology

Time: 2 hrs | Maximum: 40 Marks

Answer ALL questions

(The figures in the right hand margin indicate marks)

PART – A **(2 x 5 = 10 Marks)**

Q.1. Answer ***ALL*** questions		CO #	Blooms Level
a.	Differentiate between the diagnostic characteristics of class Secernentea and Adenophora	CO2	L3
b.	Write the nematodes associated with virus (NEPO and NETU/TOBRA)	CO2	L2
c.	Write the characteristic symptoms of red ring nematode in coconut.	CO2	L1
d.	Define host race and biotypes in nematodes along with examples.	CO1	L2
e.	Write the scientific names for these common nematodes: Red ring nematode, Pin nematode, lesion nematode and potato cyst nematode.	CO1	L1

PART – B **(6 x 5 = 30 Marks)**

Answer ***ALL*** the questions (Attempt any 6)		Marks	CO #	Blooms Level
2.	Explain in detail about the male reproductive system of nematode. Draw a clean diagram with proper illustrations.	5	CO3	L4
3.	Enlist the economically important nematode pests of Banana, Citrus and grapevine and their characteristics symptoms.	5	CO2	L2
4.	Write the taxonomic classification up to species level of economically important plant parasitic nematode viz. *Meloidogyne*, *Anguina*, *Tylenchulus*.	5	CO3	L1
5.	Explain in detail about the embryonic development of plant parasitic nematodes.	5	CO2	L2
6.	Enumerate the classification of nematode based on feeding habit (illustrate only below ground feeders with one example each)	5	CO2	L1
7.	Differentiate in detail between the sub order Tylenchina and Aphlenchina.	5	CO2	L2
8.	Explain in brief about the biological control of plant parasitic nematode.	5	CO3	L3
9.	Elaborate the symptoms caused by above ground feeder plant parasitic nematodes.	5	CO3	L2

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