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**GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY UNIVERSITY, ODISHA, GUNUPUR
(GIET UNIVERSITY)**



B. Sc. (Ag.) (Second Semester - Regular) Examinations, July - 2025

PPT-121 – Fundamentals of Plant Pathology

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 obligate parasite and obligate saprophytes.	CO1	L1
b. Write about types of sporangiospores.	CO3	L2
c. Explain briefly about phases in sexual reproduction of fungi.	CO2	L2
d. Differentiate between Haustorium and Appresorium.	CO1	L2
e. What are flagella? Write types of flagellation in fungi.	CO2	L1

PART – B

(6 x 5 = 30 Marks)

Answer **any six** questions

	Marks	CO #	Blooms Level
1. Write differences between Phytophthora and pythium.	5	CO2	L2
2. Write in detail about types of asci based on structure of ascus wall and labelled diagram of sterile thread-like structures in ascocarp.	5	CO3	L2
3. Elaborate schematically asexual reproduction and sexual reproduction of powdery mildew fungi.	5	CO1	L2
4. Describe distinguishing characteristics of different downy mildew genera with labelled diagram.	5	CO4	L2
5. Draw the schematic illustration of generalised life cycle of Ascomycotina.	5	CO3	L2
6. Write about various distinct stages of mycelium and mode of development of clamp connection in Basidiomycotina.	5	CO4	L2
7. Explain about methods of sexual methods in fungi with labelled sketch.	5	CO3	L2
8. Describe important characteristics of phytopathogenic bacteria.	5	CO2	L2

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