

# **PLANT PATHOLOGY & NEMATOTOLOGY**

## **IIInd Edition**

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L.L. Somani

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**2<sup>nd</sup> Edition**  
**PLANT PATHOLOGY**  
**& NEMATOTOLOGY**

**Aruna Parihar**  
**L.L. Somani**



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# Preface

Plant Pathology & Nematology, one of the prominent branches of Agriculture, has expanded by heaps and bounds during the last three decades and has assumed new dimensions with respect to its different disciplines. Due to enormous breadth and diversity of the subject, a number of books has been written dealing with specific branches of Plant Pathology such as Mycology, Bacteriology, Virology seed Pathology, Molecular and Biotechnological Plant Pathology, Plant disease management, plant quarantine and disease risk analysis, history of plant pathology, diseases of field and horticultural crops, biological integrated disease control, *etc.* The experience tells that either these books are not available to most of the students of the country or if available remain unread due to broad coverage of the topics. To cater the needs of such students the book Plant Pathology & Nematology: Objective Fundamentals has been written.

The book covers almost entire field of Plant Pathology from the history to advances in disease management in the form of objective question and answer. The questions have been framed very critically in manner that they cover various aspects of Plant Pathology & Nematology. The book contains selected and standard questions setup for sound knowledge of the subject. Rare and latest information has been provided in each chapter.

No doubt the book would be of paramount importance for students appearing for interviews, viva-voce, comprehensive and other examinations. This volume would be useful for UG & PG students of Agricultural and Botany in all India universities.

This book will also be useful for those appearing in competitive examinations. Like (Admission tests, ARS, NET, SLET, SEF, SET, IRMA, UPSC, NABARD and Civil Services Examinations as it would help them to revise the entire course of Plant Pathology &

Nematology within a short time to recollect the vast knowledge they gained by reading different books of plant pathology & Nematology.

This book contains up-to-date information in the form of objective question-answers including matching, fill in the blanks, multiple choice questions, true-false along with a glossary of terms related to plant pathology.

While compiling objective question, we have consulted various question papers, text books and reference books from which matters have been heavily drawn upon for the present volume. we acknowledge may humble indebtedness to all those authors from whose works material has been drawn.

Suggestions for improvement of the present book from worthy teachers and students will be gratefully acknowledged.

**Aruna Parihar**

**L.L. Somani**

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# About the Book

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## About the Author

**Dr. Aruna Parihar** (Borne 1949) did her M.Sc. in Zoology from Jodhpur University, Jodhpur in 1975, Ph.D. in 1979 and was awarded University merit fellowship. Dr. Parihar awarded Post Doctoral Research Fellowship of Council of Scientific and Industrial Research, New Delhi from 1979-81. She worked as Research Associate in the Department of Nematology, RCA, Udaipur, from 1982-1988. In 1986 she visited North Carolina State University, Raleigh, North Carolina, USA to attend three weeks refresher course in Plant Nematology, Dr. Parihar was selected as Assistant Professor in 1989 and appointed Associate Professor in 2001 in the same discipline. She was actively engaged in teaching UG, PG and Ph.D. and guided 13 M.Sc. and 03 Ph.D. students. She has published 83 research papers in International and national Journals and 08 chapters in edited books. She is a member of several International and National Societies and councilor of Indian Society of Mycology and Plant Pathology (West Zone). She has completed one ICAR funded research project as Principal Investigator and handled two DBT sponsored projects on Entomopathogenic Nematodes as a CO-PI. She is one of the pioneer scientists who initiated work Entomopathogenic Nematodes in Rajasthan. She was awarded "Best worker award" in the year 2008 for her outstanding services to the University by Maharana Pratap University of Agriculture and Technology, Udaipur.

**L.L. Somani** Retd. Director (RI) MPUAT Udaipur has many papers published in National and International Journals/Symposia, *etc.* and many number of books to his credit in different disciplines of Agriculture and allied field. He held different positions in MPUAT and he spreaded highly innovative ideas and programmes for development of Agriculture.



# Chapter 1

## Matching

---

Match List A and List B. Answers are given in bold letters.

Q. 1

Key	(A) Insecticide	(B) LD <sub>50</sub>
(ii)	(a) Methoxychor	(i) 10-100
(iii)	(b) Toxaphene	(ii) 5,000
(iv)	(c) Calcium arsenate	(iii) 283
(i)	(d) Lead arsenate	(iv) 35-100

Q. 2

Key	A	B
III	(a) BB Mundkur	(i) Fungi and Disease in Plants
II	(b) GC Ainsworth	(ii) Introduction to the History of Plant Pathology
I	(c) EJ Butler	(iii) Fungi and Plant Diseases
IV	(d) AP Waterson and Lise Wilkinson	(iv) An Introduction to the History of Virology

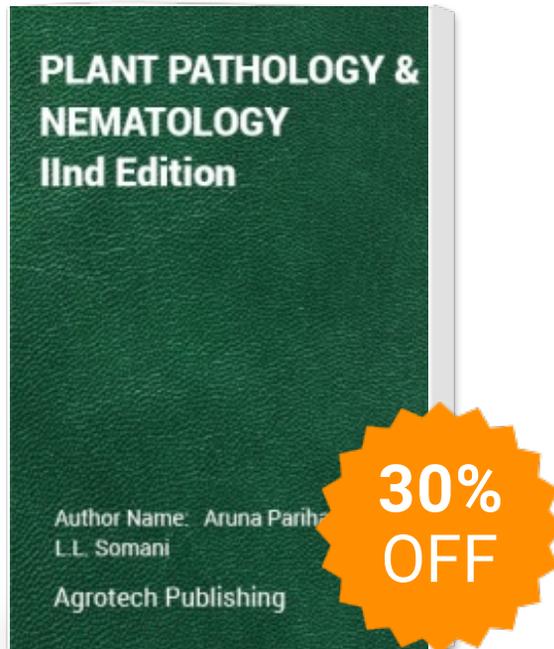
Q. 3

Key	(A) Pathogen	(B) Toxin
III	(a) <i>Helminthosporium victoriae</i>	(i) T-toxin
I	(b) <i>H. maydis</i> , race T	(ii) HS-toxin
IV	(c) <i>H. carbonum</i>	(iii) Victorin
II	(d) <i>H. sacchari</i>	(iv) HC Toxin

Q. 4

Key	(A) Predatory stage	(B) Main prey
II	(a) Lacewings, larvae and adults	(i) Plant feeding mites

# Pathology and Nematology at A Glance IInd Edition



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