

According to ICAR 6<sup>th</sup> Deans' Syllabus for B.Sc. (Hons.) Agriculture

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# **Objective Principles of Integrated Pest and Disease Management**

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# Objective Principles of Integrated Pest and Disease Management

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# Preface

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This book entitled “Objective Principles of Integrated Pest and Disease Management” is anticipated to introduce various competitive questions of insect pests and plant disease management to undergraduate students according to ICAR 6<sup>th</sup> Deans’ Syllabus. In revised ICAR 6<sup>th</sup> Deans’ syllabus, different topics of integrated pest and disease management have been included in different undergraduate courses like, Fundamentals of Plant Pathology, Pest management in crops and stored grains, Pest management of Horticulture crops etc. For this reason we have tried to summarize all important aspects of total new syllabus in objective question answer format focusing on major topics of IPM like categories of insect pests and diseases; IPM: introduction, history, importance, concepts, principles and tools of IPM; economic importance of insect pests, diseases; pest risk analysis; methods of detection and diagnosis of insect pest and diseases; calculation and dynamics of economic injury level and importance of economic threshold level; methods of control: host plant resistance; cultural; mechanical; physical; legislative; biological and chemical control; ecological management of crop environment; introduction to conventional pesticides for the insect pests and disease management; survey, surveillance and forecasting of insect pest and diseases; safety issues in pesticide uses; use of drones and AI in pest management. During preparation of different competitive exam, we found it is very difficult to cover the entire syllabus as the different topics of IPM were scattered in different plant pathology and entomology books in lengthy format, keeping this in mind we thought there must be one objective book which contain the important aspects of different topics of IPM in new patterns of question answer forms by which student can thoroughly acquire knowledge within a short period of time.

We hope that this book will prove useful to students preparing for competitive exam like ICAR JRF, SRF, CUET, UPSC, PG entrance (SAUs) and other State Entrance Exam. The book itself consists of twenty solved model objective question sets along with previous years’ competitive exams which will help students to introduce new pattern of different exam. We admit our humble gratitude to all those authors from whose work material has been drawn.

We gratefully acknowledge the cooperation of New Delhi Publishers to bring this book in this form within a short time span.

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2025

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