

MCQ's for Competitive Examinations
(ICAR-ARS/NET, JRF, SRF, IAS, IFS, PCS, SET,
CSIR/UGC-NET, UPSC-CS, FCI & Ph.D.)

Indira's

Objective Agricultural Biotechnology

2nd Ed.

R.L. Arya
Alok Das

Sonam Arya
Vaishali

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OBJECTIVE AGRICULTURAL BIOTECHNOLOGY

2nd Edition

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Dr. R.L. Arya

Senior Scientist
Central Tobacco Research Institute Research Station,
Dinhata,
Coochbehar (W.B.)

Sonam Arya

Ph.D. Research Scholar (Agril. Biotechnology)
Sardar Ballabh Bhai Patel University of
Agriculture and Technology,
Meerut (UP.).

Dr. Alok Das

Scientist (Plant Biotechnology)
Indian Institute of Pulses Research,
Kanpur (U.P.)

Dr. Vaishali

Assistant Professor
Department of Biotechnology
College of Agriculture
Sardar Ballabh Bhai Patel University of
Agriculture and Technology,
Meerut (UP.).



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PREFACE

India is a developing country and making significant strides to promote research and development activities to promote Biotechnology. As a result of emergence of biotechnology, novel products and services that encourage the human activities and welfare are realized. Though modern tools and techniques are of recent origin however, biotechnology existed since time immemorial, much before the other realms of technology came into practice. The fermentation technology of alcoholic beverage and setting of curd from milk are to cite a few. Biotechnology is becoming as the one of the most favorite subject for the students of biology and gradually emerged as a subject in schools, subsequently universities offering undergraduate, post graduate, M. Phil and Doctoral programmes with the aim to develop trained human resources. The competitive examinations have become a routine procedure admissions and recruitment for higher position in learning and education. These examinations mostly comprise multiple choice questions (MCQs) to test the knowledge within a specified period of time.

A quick reference manual covering all aspects of biotechnology is a long felt need for students and aspirants appearing in different competitive examinations. Towards this end, efforts have been made by us to prepare and presents all facets of biotechnology in easy, short and understandable manner. **“Indira’s Objective Agricultural Biotechnology 2nd Edition”** for competitive exams in agricultural biotechnology discipline contains 23 chapters covering all related disciplines. These chapters include : Introduction, Cell Biology, Genetics and Cytogenetics, Plant Physiology and Molecular Biology, Plant Biochemistry, Agricultural Microbiology, Ecology, Diversity of life and ecological principles, Environmental Biotechnology, Natural and Forest Conservation, Genomics and Recombinant DNA technology, Transgenics, Molecular markers, Plant Tissue Culture, Bioinformatics, Seed Biotechnology, Plant Protection Biotechnology, Industrial Biotechnology, Food and Beverage Biotechnology, Intellectual Property Rights, Patenting and Biosafety, Animal Biotechnology. Model test papers and previous years solved papers have been given due importance at the end of the book present a general guidance of examination pattern. Each chapters contains multiple choice questions covering every aspects and total about 12000 objective questions with multiple choices have been framed and arranged sequentially. Recent technological development in the field of agriculture also been incorporated in the text. This book is primarily intended to serve as a ready reference for those appearing in competitive examinations of undergraduate, post graduate, M. Phil and doctorate programmes in Biotechnology of various Universities. We believe that this book will also be useful for teachers, researchers and development officers for references and easy answering of many complicated questions. Every possible effort has been made to accommodate previous year’s questions of various competitive examinations, on memory basis. The chapters are chosen in view to cover the course contents of competitive examinations like IAS, IFS, ARS, PCS, Banking, SLETs, UGC-NET and others.

In this edition, there could be some shortcomings for which valuable and informative suggestions will be gratefully appreciated. These shortcomings, if found in the text may be incorporated in forthcoming edition for the benefit of readers with your critical suggestions, so that book may be more useful to the students.

We convey our gratitude to the entire Management of Scientific Publishers, Jodhpur for taking all pains in the publication of the book. The authors specially thank Dr. Kalish Chaudary, Lachoo College, Jodhpur for critically suggesting the corrections in the first edition of the book.

Authors are be grateful to all those persons as well as various books, periodicals, magazines, newsletters, journals etc., that helped in the preparation of this book. The authors/publishers look forward to suggestions from all readers, especially for experienced researchers and scholars for further improving the subject content as well as the presentation of this book.

2015, Kanpur

**R. L. ARYA
SONAM ARYA
ALOK DAS
VAISHALI**

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