

CBO-1001

BACTERIOLOGY, PHYCOLOGY, MYCOLOGY AND PLANT PATHOLOGY

Unit-I Bacteriology

General characters and classification of Bacteria.

Structure of Bacterial cell.

Nutrition and reproduction in Bacteria.

Economic importance of Bacteria.

Unit-II Phycology

General characters and classification of different divisions (classes) of Algae: Cyanophyta, Chlorophyta, Phaeophyta, Rhodophyta.

Thallus organization (Range of thallus) and reproduction in Algae.

Life cycle patterns in Algae.

Economic importance of Algae.

Unit-III Mycology

General characters and classification of different divisions (classes) of Fungi: Phycomycetes, Ascomycetes, Basidiomycetes and Deuteromycetes.

Nutrition in Fungi.

Reproduction in Fungi and Heterothallism.

Economic importance of Fungi: food and fodder, industry, medicine.

Unit-IV Plant Pathology

Introduction, general symptoms and classification of plant diseases.

Diseases of plant: Symptoms and types.

Symptoms, causal organism, disease cycle and control measures of following diseases:

Citrus canker

Bacterial blight of Paddy

Downy mildew

Rusts and Smuts