

**Paper Code: BOT-553**

**Paper Name: Applied Mycology and Plant Pathology**

**BLOCK – I : DIVERSITY, TAXONOMY AND UTILIZATION OF FUNGI**

- Unit –1 : General Account and Diversity of Fungi
- Unit –2 : Fungal Taxonomy
- Unit –3 : Mycorrhizae
- Unit –4 : Edible Mushrooms: Medicinal and Nutritional Value
- Unit –5 : Mushroom Cultivation
- Unit –6 : Fungi as Biopesticides

**BLOCK – II : FUNGAL BIOTECHNOLOGY**

- Unit –7 : Scope and Techniques of Fungal Biotechnology
- Unit –8 : Fungal Enzymes and Metabolites
- Unit –9 : Industrial production of Penicillin, Citric Acid and Alcohol
- Unit –10 : Fungi in Relation to Pollution
- Unit –11 : Fungi in Biodegradation

**BLOCK – III : PRINCIPLES OF PLANT PATHOLOGY**

- Unit –12 : History and Concepts of Plant Pathology
- Unit –13 : Classification and Symptomatology of Fungal, Bacterial, Viral, Phytoplasmal And Nematode Diseases
- Unit –14 : Host – Pathogen Interaction – I
- Unit –15 : Host – Pathogen Interaction – II
- Unit –16 : Control of Plant Diseases

**BLOCK – IV : DISEASES CAUSED BY BACTERIAL, VIRUSES PHYTOPLASMA AND SPIROPLASMAS**

- Unit –17 : Plant Diseases Caused by Bacteria, Viruses, Phytoplasma and Spiro plasmas
- Unit –18 : Plant diseases of Cereals, Pulses and Oil Seeds
- Unit –19 : Plants Diseases of Fruits and Vegetables
- Unit –20 : Plant diseases of Cash Crops and Plantation crops