

**DEPARTMENT OF PLANT PROTECTION
FACULTY OF AGRICULTURAL SCIENCES**

A.M.U., Aligarh

Syllabus for Ph.D Admissions Test 2020-21

Section – B

Ph.D. Entomology

Insect morphology, Systematics and Taxonomy. Insect Anatomy, Physiology, Pathology and Ecology. Toxicology of insecticides. Principles of insect pest management. Biological control, Storage Entomology. Insect pests of field, horticultural, ornamental and plantation crops and their management. Commercial Entomology, entomological techniques and Plant Quarantine.

Ph.D. Plant Pathology

Advances in Mycology, Phytobacteriology, Phytovirology and Phytonematology. Principles of Plant Pathology and disease management. Phytopathological techniques. Chemicals in plant disease management. Biological control of plant pathogens. Seed health technology. Integrated disease management. Physiological and biochemical aspects of host- pathogens interaction. Etiology and management of diseases of field crops, horticultural crops and medicinal plants caused by fungi, bacteria, viruses, viroids, phytoplasmas and nematodes. Biotechnological and molecular advancements in Plant Pathology.