Symptoms of Plant Diseases

Pathogen: Pathogen is a living entity or any microorganism which is capable of causing disease such as virus, bacterium, fungus, MLOs and nematode etc.

Disease: Any malfunctioning of host cells and tissues that results from continuous irritation by a pathogenic agent or environmental factor and leads to development of symptoms.

Symptom: The external or internal reactions or alteration of a plant as a result of a disease is called symptom. These symptoms are collectively called as syndrome.

Albication: Albication is the complete repression of color caused by viruses, bacteria, fungi, and iron deficiency leading to albinism or whitening of leaf tissue.

Blight: A disease characterized by general and rapid killing of leaves flowers and stems.

Blotch: A disease characterized by large and irregular in shape, spots or blots on leaves, shoots and stems.

Canker: A necrotic often sunken lesion on a stem, branch or twig of a plant.

Chlorosis: Yellowing of normally green tissue due to chlorophyll destruction or failure of chlorophyll formation.

Damping-off: Destruction of seeds in the soil, or seedlings near the soil line, resulting in reduced stand, or the seedling falling over on the ground.

Decline: Progressive, gradual weakening and death of a plant or population of plants.

Dieback: Progressive death of shoots, branches and roots generally starting at the tip.

Fleck: a minute spot.

Galls: Abnormal, localized swellings or tumors on stem or root tissue.

Gum: Complex of polysaccharide substances formed by cells in reaction to wounding or infection.

Gummosis: Production of gum by or in a plant tissue.

Leaf spot: A self-limiting lesion on a leaf.

Lesion: A localized area of discolored, diseased tissue.

Mildew: A plant disease in which the pathogen is seen as a growth on the surface of the host; e.g., downy mildew, powdery mildew, caused by different fungi, but both having the name Mildew.

Mosaic: Symptom of certain viral diseases of plants characterized by intermingling patches of normal green and light green or yellowish colors.

Mottle: An irregular pattern of indistinct light and dark green areas.

Mummy: A dried shriveled fruit.

Necrosis: Necrosis is localized or the general death/degeneration of plant tissue (protoplast). It includes leaf spots, blight, rots etc.

Necrotic: Dead or discolored and brown to black.

Ooze: A mass of bacterial cells usually embedded in a slimy matrix appearing on the diseased plant surface, often as a droplet; or, a flux, a viscid mass of juices composed of host and parasite substances occasionally found exuding from a diseased plant.

Ring spot: A circular area of chlorosis with a green center; a symptom of many virus diseases.

Rot: The softening, discoloration, and disintegration of succulent plant tissue as a result of fungal or bacterial infection.

Rosette: Short, bunchy habit of plant growth.

Root knots: Root knots are the formation of galls on the roots which is caused as a result of nematode infection.

Russet: Browning roughened areas on skin of fruit as a result of cork formation.

Rust: A disease giving a rusty appearance to a plant and caused by one of the Uredinales (rust fungi).

Scab: A roughened crust-like diseased area on the surface of a plant organ; a disease in which such areas form.

Scorch: Burning of leaf margins as a result of infection or unfavorable environmental conditions.

Shot-hole: A symptom in which small diseased fragments of leaves fall off and leave small holes in their place.

Smut: A disease caused by the smut fungi (Ustilaginales), it is characterized by masses of dark, powdery and sometimes odorous spores.

Spots: Circular or irregular lesions on above ground tissue.

Soft rot: A rot of a fleshy fruit, vegetables or ornamental in which the tissue becomes macerated by the enzymes of the pathogens.

Streak: Narrow, elongated, somewhat superficial necrotic lesions, with irregular margins, on stems or leaf veins such as virus streak.

Stripe: Narrow, elongated, parallel, necrotic lesions especially in leaf diseases of cereals and grasses.

Vein banding: Retention of bands of green tissue along the veins while the tissue between veins has become chlorotic.

Vein clearing: Destruction of chlorophyll adjacent or in the vein tissue as a result of infection by a virus or other pathogen.

Wilt: Loss of rigidity and drooping of plant parts generally caused by insufficient water in the plant.

Witches' broom: Broom-like growth or massed proliferation caused by the dense clustering of branches in woody plants.

Yellows: A plant disease characterized by yellowing and stunting of the host plant.