

## PLANT DISORDER DIAGNOSIS PRACTICUM

This practicum is aimed at developing in students the ability to recognize and recommend remedial measures for various types of plant disorders. Included among these are environmental, nutritional, insect-related, and disease-related disorders.

Five different stations depicting plant disorders will be included. Answers will be multiple choice in nature. Identifying the disorder correctly will be worth five points. Selecting the proper remedy for the disorder will be worth an additional five points (total value of 50 points). Contestants would be given two minutes per station.

Example: A plant infested with mealy bugs would be present as an exhibit at Station #1.

Disorder answer sheet might include:

- (a) Aphids
- (b) Botrytis
- (c) Mealy bugs
- (d) Fungus gnats

Remedy answer sheets might include:

- (a) Raise the greenhouse temperature
- (b) Spray with a fungicide such as Benlate
- (c) Lower the humidity of the greenhouse
- (d) Spray with an insecticide such as Orthene

<b>Nutritional &amp; Environmental Disorders</b>	
Magnesium deficiency Mechanical damage Drought stress Too much light Improper temperature	Phosphorus deficiency Overwatering damage Inadequate lighting Iron deficiency Nitrogen deficiency Salt damage
<b>Diseases</b>	
Powdery mildew Pythium root rot Mosaic Anthracnose leaf spot	Botrytis (gray mold) Rhizoctonia
<b>Insects and Pests</b>	
Snails Whiteflies Leaf miner Mealybugs Fungus gnat	Slugs Aphids Spider mites Scale