

B.Sc. (H) Botany IIsem
Mycology and Phytopathology-Practical

Assignment based on practicals

Last date of submission: 15.4.2020

Q. Submission of practical sheets (both diagrams and write up) for the following practicals:

- 1) Lichens**
- 2) Mycorrhizae**
- 3) Bacterial and viral diseases of plants**

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Practical:

Aim: To study bacterial and viral diseases of plants.

Draw labelled diagrams and write Symptoms and control methods for each disease as shown in photograph.

Bacterial diseases of plants

Citrus canker

Host- Citrus spp. (Rutaceae)

C.O.- Xanthomonas citri



→ Cankeros spots
surrounded by
yellow halo

Citrus Leaf infected by Xanthomonas citri



→ Corky spots on
fruit

Citrus fruit infected by Xanthomonas citri

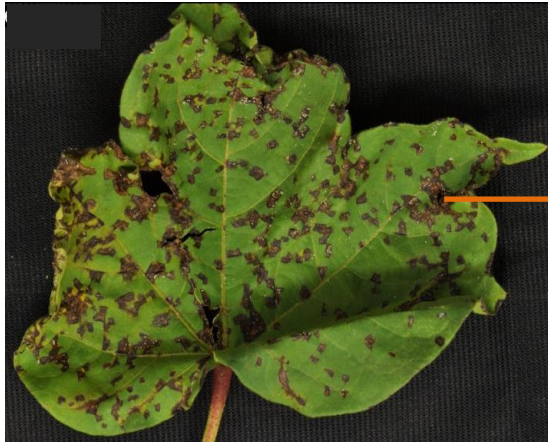
Write symptoms and control methods.

Bacterial diseases of plants

Angular Leaf Spot of cotton

Host - *Gossypium* spp. (Malvaceae)

C.O.- *Xanthomonas malvacearum*



Angular leaf spots

Angular leaf spot symptoms on leaf



water-soaked lesions on boll

Angular leaf spot symptoms on cotton boll (fruit)

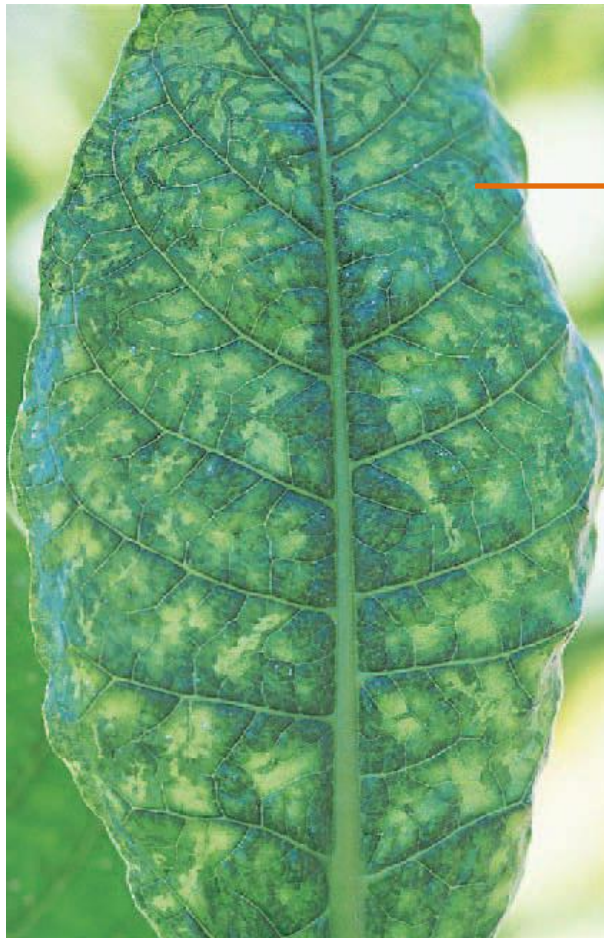
Write symptoms and control methods.

Viral diseases of plants

Tobacco Mosaic Disease

Host- Nicotiana tabaccum (Solanaceae)

C.O. - Tobacco Mosaic Virus (TMV)



→ Mosaic leaf

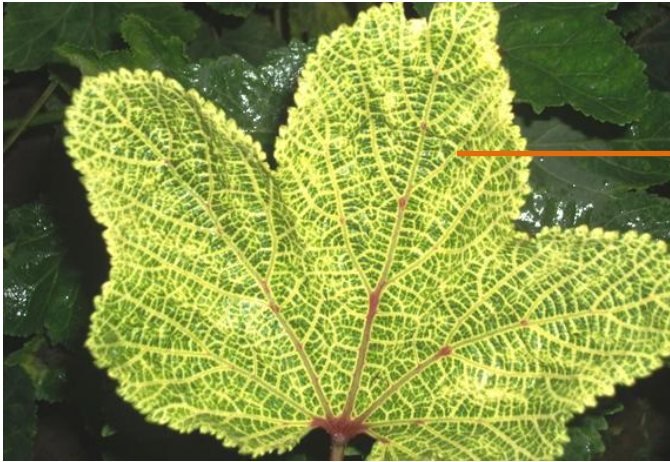
Leaf infected by Tobacco Mosaic Virus (TMV)

Write symptoms and control methods.

Vein clearing of bhindi

Host- Abelmoschus spp. (Malvaceae)

C.O. - Hibiscus virus



→ Vein clearing forming mosaic pattern

Vein clearing disease in Abelmoschus spp. (Malvaceae) caused by Hibiscus virus

Write symptoms and control methods.