**PRACTICAL :**

**ITK IN DISEASE MANAGEMENT:**

1. **Cultural methods :**

* Fallowing for 2 years reduces soil borne diseases of pearl millet with legumes, sesame and cucurbits.
* Crop rotation reduces cumin wilt.
* Flooding suppress sooty mould and insect of cotton.
* **Time of seeding** has an important bearing on disease prevention in many cases. Delayed planting of wheat will help escape the chances of wheat streak mosaic virus. Early spring planting of cotton may effectively help escape cotton root rot.
* **Rouging (removal) of diseased plants** as they appear is often an effective method in helping reduce the spread of a destructive disease. Bacterial wilt of cucurbits are examples where rouging is worthy of consideration.

1. **Physical methods :**

* The hot water treatment method of Jensen was developed in 1887 which was used to control loose smut disease of wheat, barley and Oats. Until the development of systemic fungicide hot water treatment was the only method to control loose smut. Hot water treatment is also effective in the control of nematodes.
* Solar energy treatment to control loose smut was first developed by Lutlzra. In this method seeds are first rinsed or soaked in water for 4-5 hrs before drying them in scorching sun.
* Hot air treatment for the control of virus in propagating stocks was first developed by Kunkal in Peach yellow.

**c) Botanical methods:**

* **To treat paddy leaf curl:** Add one kilo of agave leaves in 10 litres of boiling water in a copper container and allow to stand for 24 hours and Spray the extract on the crop.
* **Liquid extracts for disease management:**

|  |  |
| --- | --- |
| **DISEASE** | **TYPE OF COMPOST** |
| Late blight of potato ,tomato | Horse compost extract |
| Gray mold on beans strawberries | Cattle compost extract |
| Downy and powdery mildew of grapes | Animal manure-straw compost extract |
| Powdery mildew on cucumbers | Animal manure-straw compost extract |
| Gray mold on tomato, pepper | Cattle and chicken manure compost extract |
| Apple scab | Spent mushroom compost extract |