

Contents

UNIT-1 : Field Crops

1. Wheat 9-31

1. Rust : The Rust Fungi, (a) Brown or Leaf or Orange rust—Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management, (b) Stripe or Yellow—Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management, (c) Stem or Black Rust—Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management, **2. Loose Smut** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control Management, **3. Karnal Bunt** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management, **4. Powdery Mildew** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management, **5. Alternaria Blight** : Symptoms, Causal Organism, Disease Cycle, Favourable Conditions, Detection and Inspection Methods, Control/Management, **6. Ear Cockle** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management.

2. Sugarcane 32-44

1. Red Rot : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management, **2. Smut** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management, **3. Wilt** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management, **4. Grassy Shoot** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management, **5. Ratoon Stunting** : Symptoms, Causal Organism, Disease Cycle, Control/Management, **6. Pokkah Boeng** : 1. Chlorotic Phase, 2. Acute Phase or Top-Rot Phase, 3. Knife-cut Phase, Causal Organism, Favourable Conditions, Control/Management.

3. Sunflower 45-52

1. Sclerotinia Stem Rot : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management, **2. Alternaria Blight** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management.

4. Mustard 53-59

1. Alternaria Blight : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management, **2. White Rust** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management, **3. Downy Mildew** : Symptoms, Causal Organism, Favourable Conditions,

Disease Cycle, Control/Management, **4. Sclerotinia Stem Rot** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management.

5. Gram **60-63**

1. Wilt : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management, **2. Grey Mould** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management, **3. Ascochyta Blight** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management.

6. Lentil **64-70**

1. Rust : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management, **2. Wilt** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management.

7. Cotton **71-77**

1. Anthracnose : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management, **2. Vascular Wilt** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management, **3. Verticillium Wilt** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management, **4. Black Arm or Bacterial Blight or Angular Leaf Spot** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management.

8. Pea **78-83**

1. Downy Mildew : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management, **2. Powder Mildew** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management, **3. Rust** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management.

UNIT-2 : Horticultural Crops

9. Mango **84-92**

1. Anthracnose : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management, **2. Malformation** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management, **3. Bacterial Blight** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management, **4. Powdery Mildew** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management.

10. Citrus **93-96**

1. Canker : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management, **2. Gummosis or Root Rot** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management.

11. Grape Vine **97-103**

1. **Downy Mildew** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management, 2. **Powder Mildew** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management, 3. **Anthracnose or Bird's-eye Disease** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management.

12. Apple **104-112**

1. **Scab** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management, 2. **Powder Mildew** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control Management, 3. **Fire Blight** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management, 4. **Crown Gall** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Control/Management.

13. Peach **113-115**

1. **Leaf Curl** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management.

14. Strawberry **116-1119**

1. **Leaf Spot** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management.

15. Potato **120-132**

1. **Early Blight** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management, 2. **Late Blight** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management, 3. **Black Scurf** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management, 4. **Leaf Roll** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management, 5. **Mosaics** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management.

16. Cucurbits **133-140**

1. **Downy Mildew** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management, 2. **Powdery Mildew** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management, 3. **Wilt** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management.

17. Onion and Garlic **141-143**

1. **Purple Blotch** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management, 2. **Stemphylium Blight** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management.

18. Chillies

144-149

1. Anthracnose : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management, **2. Fruit Rot** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management, **3. Wilt** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management, **4. Leaf Curl** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management.

19. Turmeric

150-151

Leaf Spot : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management.

20. Coriander

152-153

Stem Gall : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management.

21. Marigold

154-156

Botrytis Blight : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management.

22. Rose

157-160

1. Dieback : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management, **2. Powdery Mildew** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management, **3. Black Leaf Spot** : Symptoms, Causal Organism, Favourable Conditions, Disease Cycle, Importance, Control/Management.

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