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**GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY UNIVERSITY,
ODISHA, GUNUPUR
(GIET UNIVERSITY)**

**B. Sc. (Ag.) (Sixth Semester) Examinations, April – 2025
PPT-325 – Diseases of Field and Horticultural Crops and their
Management-II**

Time: 2 hrs

Maximum: 50 Marks

PART – A

Q.1. Fill in the blanks with suitable word.

(0.5 x 10 = 5 Marks)

- Grassy stunt of sugarcane is caused by a Phytoplasma which is transmitted by insect vector _____.
- Sclerotinia stem rot of sunflower is caused by _____.
- The causal organism of gram wilt is _____.
- White rust in mustard causes a sterile structure called _____.
- Downy mildew of mustard is caused by _____.
- Black arm disease of cotton is also called _____.
- Anthraxnose in mango is caused by _____.
- Apple scab is caused by _____.
- Citrus canker is caused by _____.
- Powdery mildew of pea is caused by _____.

Q. 2. Define (or) Explain the following in one or two sentences.

(1 x 5 = 5 Marks)

- Characteristics symptoms of wilt of sugarcane
- Symptoms of Ratton stunt of Sugarcane
- Management of loose smut of wheat (Any two)
- Primary source and secondary source of Alternaria leaf spot of Sunflower
- Knife cut phase of Pokkah boeng of Sugarcane

Q3. Match the following

(0.5 x 10 = 5 Marks)

Column – A

Column – B

- | | |
|---|--------------------------------------|
| (a) Kernel bunt of wheat | (i) <i>Puccinia striiformis</i> |
| (b) <i>Clavibacter xyli</i> pv. <i>xyli</i> | (ii) Citrus canker |
| (c) Wheat Black rust | (iii) <i>Neovossia indica</i> |
| (d) <i>Oidium tuckeri</i> | (iv) Wheat Brown rust |
| (e) Wilt of Sugarcane | (v) <i>Puccinia graminis tritici</i> |
| (f) <i>Puccinia recondita</i> | (vi) <i>Albugo candida</i> |
| (g) Wheat Yellow rust | (vii) <i>Cephalosporium sacchari</i> |
| (h) <i>Rhopalosiphum maidis</i> | (viii) Cracking of berries |
| (i) Stag head | (ix) Ratoon stunt |
| (j) <i>Phyllocnistis citrella</i> | (x) Grassy stunt of Sugarcane |

Q4. Write True or False against each statement

(0.5 x 10 = 5 Marks)

- a. Kernel bunt causes a foul fishy odor.
- b. *Ustilago nuda tritici* is a seed-borne pathogen.
- c. Orange rust affects only the stems of wheat.
- d. Citrus canker lesions are surrounded by yellow halos.
- e. Mango malformation is caused by a nematode.
- f. *Alternaria* leaf blight affects young leaves first.
- g. Citrus gummosis is caused by a bacterium.
- h. Ratoon stunt is caused by a fungus.
- i. Mustard white rust causes local symptoms only.
- j. Anthracnose of grapevine is also called bird's eye disease.

PART – B

Attempt ANY FIVE questions. All question carries equal marks

(6 x 5 = 30 Marks)

- 5. Explain about symptoms, disease cycle, favourable condition and management of *Sclerotinia* stem rot of Sunflower.
- 6. Write a comprehensive note on *Stemphylium* leaf blight and purple blotch of onion with diagram.
- 7. Draw a detailed schematic diagram on life cycle of *Agrobacterium* with labelling.
- 8. Describe about symptoms, disease cycle and management of grassy stunt of Sugarcane with labelled diagram.
- 9. Elaborate on symptoms, disease cycle, favourable condition and management of Citrus gummosis.
- 10. Discuss wilt of Sugarcane- symptoms, disease cycle, favourable condition and management with labelled sketch.

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