



GIET UNIVERSITY, GUNUPUR – 765022
B. Sc. (Ag.) (Fifth Semester) Examinations, January – 2023

PPT-314 – Diseases of Field and Horticultural Crops and Their Management- I

Time: 2 hrs

Maximum : 50 Marks

The figures in the right hand margin indicate marks.

PART – A

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

(0.5 x 10 = 5 Marks)

- Blast in rice is caused by-----
- The phanerogamic parasite in Sorghum crop-----
- Ears are transformed into Green leaf like structures in bajra by disease
- Panama wilt of banana is caused by-----
- Fruit rot of brinjal is caused by-----
- Bhendi yellow vein mosaic virus is transmitted by-----
- Red rust of tea is caused by-----
- Coffee leaf rust is caused by-----
- pathogen responsible for early leaf spot in groundnut
- Bean anthracnose is caused by -----

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

(1 x 5 = 5 Marks)

- Explain neck blast in rice
- Control measures for ergot disease in Bajra
- Transmission of pigeon pea sterility mosaic virus
- Damping off in tomato
- Mention Seed treatment techniques in rice against brown spot

Q3. Match the following

(0.5 x 10 = 5 Marks)

Column – A		Column – B	
(a)	crazy top in maize	(i)	<i>Ganodermalucidum</i>
(b)	Laxmi disease in rice	(ii)	<i>Perenosclerospora</i>
(c)	Banana bunchy top	(iii)	<i>Alternaria solani</i>
(d)	Bean rust	(iv)	Pyricularia
(e)	Tanjore wilt of coconut	(v)	Coconut
(f)	Early blight of tomato	(vi)	Capnodium
(g)	Ragi blast is caused by	(vii)	Aphids
(h)	Bud rot	(viii)	<i>Ustilagonoidea</i>
(i)	Dieback	(ix)	Uromyces
(j)	Sooty mould	(x)	Chillies

Q4. Write True or False against each statement

(0.5 x 10 = 5 Marks)

- a. White fly is the vector for Rice Tungro Virus
- b. Powdery mildew of castor is caused by *Erysiphe*
- c. Blackgram rust is caused by *Uromycesphaseolina*
- d. Black shank of tobacco is caused by *Phytophthora*
- e. Tomato spotted wilt virus is transmitted by *Thrips tabaci*
- f. Bacterial blight of rice require wounds for easy entry
- g. Sorghum downy mildew survive in plant debris as Oospores
- h. Secondary infection of Powdery mildew in green gram is spread through air born conidia
- i. Tobacco mosaic virus is sap transmissible
- j. Guava wilt is caused by *Fusarium*

PART – B

Attempt ANY FIVE questions. All question carries equal marks

(6 x 5 = 30 Marks)

5. Write about the aetiology, symptoms, mode of spread, survival, epidemiology and Integrated management of Rice blast
6. Write brief note on groundnut early and late leaf spot diseases of ground nut
7. Write about the aetiology, symptoms, mode of spread, survival, epidemiology and Integrated management of Panama wilt of banana
8. Write about the aetiology, symptoms, mode of spread, survival, epidemiology and Integrated management of coffee rust
9. Write about the aetiology, symptoms, mode of spread, survival, epidemiology and Integrated management of Coconut bud rot
10. Write brief note on downy mildew of sorghum

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