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GIET UNIVERSITY, GUNUPUR – 765022

B. Sc (AG)(Sixth Semester) Examinations, June – 2021

PP-365 - Diseases of Field and Horticultural Crops and their Management-II, 3(2+1)

Time: 2 hrs

Maximum : 50 Marks

PART – A

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

(0.5 x 10 = 5 Marks)

- Internally seed borne fungal disease of wheat-----
- Bacterial blight or black arm of cotton is incited by-----
- Quick decline in citrus caused by-----
- In a long cycled rust “0” stage refers to-----
- Taphrina causes the disease -----
- Cucurbit downeymildew is caused by-----
- Sugarcane ratoon stunting is caused by-----
- Elsinoeampelina causes anthracnose in-----
- Black spot of Rose is caused by-----
- Tiger claw symptom observed in-----disease of cotton

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

(1 x 5 = 5 Marks)

- Define Cross protection
- Define Crown gall
- Define mosaic
- Explain vascular browning
- Explain die back in chillies

Q3. Match the following

Column – A			Column – B	
(a)	PokkahBoeng	(i)		<i>Plasmoparaviticola</i>
(b)	Xanthomonasaxonopodispv. citri	(ii)		<i>Colletotrichumcapsici</i>
(c)	Mango Anthracnose	(iii)		Potato
(d)	Irish Famine	(iv)		<i>Protomycesmacrosporus</i>
(e)	Grape vine downy mildew	(v)		<i>Fusariumudum</i>
(f)	Turmeric leaf spot	(vi)		Canker
(g)	Black scurf	(vii)		<i>Agrobacterium tumifaciens</i>
(h)	Coriander Stem gall	(viii)		<i>Phtophthorainfestans</i>
(i)	Red gram wilt	(ix)		<i>Colletotrichumgloeosporioidesvar minor</i>
(j)	Crown gall	(x)		Wheat

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Q4. Write True or False against each statement**(0.5 x 10 = 5 Marks)**

- a. Wheat ear cockle is a viral disease
- b. Sugarcane grassy shoot is a *Phytoplasma* disease
- c. Tiger stripe disease is a *Verticillium* wilt of cotton
- d. Mango anthracnose also causes latent infection during storage
- e. *Toxoptera citricida* (aphid) is a vector for Citrus tristeza virus
- f. *Venturiainaequalis* causing apple Podery mildew
- g. *Fusarium* wilt pathogen in cucubits can survive long periods in soil as chlamydospores
- h. *Myzuspersicae* is a vector for potato mosaic
- i. *Uromyces fabae* in pea is a autoecious rust
- j. Wettable sulphur is a effective fungicide against rust diseases

PART – B**Attempt ANY FIVE questions. All question carries equal marks****(6 x 5 = 30 Marks)**

5. List out the Three important diseases of wheat and write about the Symptoms, etiology, disease cycle and management of black stem rust of wheat
6. Write about the Symptoms, etiology, disease cycle and management of red rot and smut diseases of sugarcane
7. Write about the Symptoms, etiology, disease cycle and management of potato early and late blight diseases
8. Write brief note on *Fusarium* and *Verticillium* wilt of cotton
9. Name three important diseases of Mango and write about the Symptoms, etiology, disease cycle and management of mango anthracnose
10. Write about the Symptoms, etiology, disease cycle and management of turmeric leaf spot and chillies fruit rot

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