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GIET UNIVERSITY, GUNUPUR – 765022

B. Sc (AG) (Fifth Semester – Regular) Examinations, December – 2020

PP-354 – DISEASES OF FIELD & HORTICULTURAL CROPS & THEIR MANAGEMENT-I, 3(2+1)

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.

(10 x 0.5 = 5 Marks)

- Kresiek symptoms in rice is caused by-----
- The phanerogamic parasite in Sorghum crop-----
- Ears are transformed into Green leaf like structures in bajra by disease
- Moko 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.

(5 x 1 = 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

(10 x 0.5 = 5 Marks)

Column – A

Column – B

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|---|--|
| (a) Lakshmi disease in rice | (i) <i>Ganoderma lucidum</i> |
| (b) crazy top in maize | (ii) <i>Alternaria solani</i> |
| (c) Banana bunchy top is transmitted by | (iii) <i>Pyricularia setariae</i> |
| (d) Bean rust | (iv) Coconut |
| (e) Tanjore wilt of coconut | (v) <i>Capnodium</i> |
| (f) Early blight of tomato | (vi) Aphids |
| (g) Ragi blast is caused by | (vii) <i>Ustilago indica</i> |
| (h) Bud rot | (viii) <i>Perenosclerosporasorghii</i> |
| (i) Die back | (ix) <i>Uromyces appendiculatus</i> |
| (j) Sooty mould | (x) Chillies |

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