

KERALA AGRICULTURAL UNIVERSITY

B.Sc. (Hons.) Agriculture Programme

Special Re-Examination - 2008 Batch - April 2012

Cat. No.: Path. 3103

Marks: 80

Title : Diseases of field crops and their management

Time: 3 hours

I. Match the following

10 x 1 = 10.00

1. Luthra 1934	a.) <i>Albugo</i>
2. black rust of wheat	b.) <i>Puccinia purpurea</i>
3. Uredospores	c.) Physiological specialization
4. <i>Uromyces phaseoli</i>	d.) <i>Phakopsora pachyrhizi</i>
5. Soybean rust	e.) Perpetuation of rust
6. K.C. Mehta	f.) Brinjal alternate host
7. Erickson	g.) Single celled teliospore
8. Sorghum rust	h.) repeating spores
9. White rust/blisters	i.) Barberry - Alternate host
10. <i>Puccinia penniseti</i>	j.) Solar treatment

II. Write short notes on any ten

10 x 3 = 30.00

1. Write the symptoms of *Phytophthora* blight of pigeonpea
2. Give example of culmiculous and ovariculous smuts
3. Name any three sclerotia producing pathogenic organism
4. How do you manage black arm of cotton
5. Write the vector of PPSMV and cite one resistant variety

6. List down the viral diseases of rice with its vector.
7. Describe the symptom of the important bacterial disease affecting tobacco
8. Name any two phanerogamic parasites with the symptom exhibited on the host
9. Write the causal organism of the following 1. black leg of potato 2. black leg of crucifers
10. Name a specific fungicide for downy mildew of cucumber, powdery mildew of pulses and rice blast
11. Write the management of damping off of vegetables
12. Bio control agents a boon against soil borne diseases - discuss

III. Write short essays on any six

6 x 5 = 30.00

Differentiate the following symptoms and write their management

1. Phytoplasma disease of sesame and brinjal
2. RTV and N deficiency of rice
3. Early and late blight of tomato
4. Fruit rot of brinjal and chillies
5. Wart and black scurf of potato
6. Black leg and black rot of crucifers
7. Grain smut and head smut of sorghum
8. Smut and smudge of onion

IV. Write essay on any one

1 x 10 = 10.00

List down the soil borne diseases of cereals, millets, pulses and cotton, and write the symptoms and management.

Or

List down the important fungal, bacterial and viral diseases of potato and cassava and write the symptoms and management