

**KERALA AGRICULTURAL UNIVERSITY**  
**B.Sc (Hons.) Agriculture – 2009 Admission V<sup>th</sup> Semester**  
**Final Examination – January / February 2012**

**Title : Path. 3103**

**Marks : 80**

**Course : Diseases of field crops and their management (2+1)**

**Time : 3 Hours**

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**I. Fill up the blanks (Answer all)**

**(10 X 1 = 10)**

1. Ear head choking in rice is a characteristic symptom of ----- disease.
2. Sorghum downy mildew is caused by ----- .
3. Acid delinting in cotton is effective for the management of ----- disease.
4. ----- is an important viral disease in bhendi.
5. ----- is an antibacterial antibiotic.

State **true** or **false**.

6. Powdery mildew is effectively managed by using sulphur fungicides.
7. Captan is a systemic fungicide.
8. Pea Ascochyta pathogen produces pycnidia on the infected parts.
9. Thin film of water is necessary for the movement of zoospores of *Pythium*.
10. Vector of pulses yellow mosaic is white fly.

**II. Write short notes on ANY TEN**

**(10 X 3 = 30)**

1. Grey mildew of cotton.
2. Pigeon pea sterility mosaic.
3. Grassy shoot.
4. Green ear.
5. Sunflower head rot.
6. Aerated steam therapy
7. Viral diseases & vectors relationship
8. Beans anthracnose
9. False smut
10. Symptoms of downy mildew of maize.
11. Sugary disease of sorghum
12. Importance of plant diseases.

**III. Write short essays on ANY SIX**

**(6 X 5 = 30)**

1. Describe life cycle of potato late blight with neat diagram.
2. Write the symptoms, disease cycle and management of rice blast.
3. List out important diseases of ground nut. Differentiate early and late leaf spot and describe its management.

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4. Write the symptoms, causal organism, mode of spread and management of dry root rot of pulses.
5. Write an essay on viral and phytoplasma diseases of tomato, bhendi and brinjal.
6. List out important diseases of sugarcane. Explain in detail about red rot of sugar cane and its management.
7. Write the symptoms, causal organism, mode of spread and management of important diseases of onion.
8. Write symptoms, causal organisms of important diseases of cassava and their management.

**IV. Write essays on ANY ONE (1 X 10 = 10)**

1. List out important diseases of wheat with causal organisms. Describe life cycle of wheat black stem rust with neat diagram.
2. Elaborate on biological control of plant diseases including method of application and mode of action with suitable examples.