

KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Ag. 2014 Admission

IInd Semester Final Examination- July/August-2015

Cat. No: Path.1101

Marks: 50

Title: Introductory plant pathology (1+1)

Time: 2 hours

I State True or False

(10 x 1=10)

1. Most of the plant viruses are DNA viruses ✓
2. The fruiting body of *Claviceps* is acervulus
3. TMV is a mechanically transmitted virus ✓
4. Most species of *Phytophthora* are heterothallic
5. Coconut cadang cadang is caused by a virus

Name the following

6. A gram positive plant pathogenic bacterium
7. The vector for bunchy top disease of banana
8. The pathogen responsible for downy mildew of grapes
9. A nematode transmitted viral disease
10. The ability of pathogen to cause a disease is termed

II Write short notes on any FIVE

(5 x 2=10)

Differentiate between (1 to 4)

1. Powdery mildew and Downy mildew ✓
2. Homothallism and heterothallism ✓
3. *Phytophthora* and *Pythium* ✓
4. Simple interest diseases and Compound interest diseases ✓
5. Classification of phytopathogenic bacteria
6. Virus vector relationship ✓
7. Phanerogamic plant parasites

III Write short notes on any FIVE

(5 x 4=20)

- ✓ 1. Fungal spores and spore bearing structures
- ✓ 2. Life cycle of *Phytophthora infestans*
3. Cleistothecial appendages in powdery mildew fungi
4. Nature, properties and classification of plant viruses
5. General characteristics of basidiomycotina and Explain Dolipore septum and clamp connection
- ✓ 6. Explain the reproduction and general characteristics of bacteria
7. Important taxonomic characters of Subdivision Deuteromycotina

IV Write essay on ANY ONE

(1 x 10=10)

- ✓ 1. Explain the life cycle of *Puccinia graminis tritici*
2. Discuss the ascus formation with proper labelled diagram