

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

(5 x 4=20)

III Write short notes on any FIVE

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