KERALA AGRICULTURAL UNIVERSITY

B.Sc. Hons (Ag) 2011 Admission

II[nd] Semester Final Examination, August 2012

Cat. No: Path.1101 **Marks: 80**

Title: Introductory Plant Pathology (1+1) **Time: 3hours**

I. Fill up the blanks **10 X 1 = 10 Marks**

1. _____is a sexual spore of *Pythium* spp.
2. Cell well of Oomycetes is made up of _____
3. Motile sporangiospores are called _____
4. *Rhizopus* is characterized by the presence of aerial mycelium viz., _____
5. Sexual fruiting body in Discomycetes is called _____
6. _____ is a method of vegetative reproduction in *Saccharomyce*.
7. Dormant structure in *Rhizoctonia solani* is called _____
8. _____ is an algal parasite infecting plants.
9. The genus _____ is an obligate parasite causing powdery mildew disease on Black Gram.
10. Pyriform conidia are observed in _____

II. Write Short notes on <u>Any ten</u> **10 X 3 = 30 Marks**

1. Biotrophs
2. Heterothallism
3. Gamatangial cupulation
4. Types of zoospores in Mastiogmycotina
5. Types of conidio. phores in powdery mildew fungi.
6. Plasmodium.
7. Physiological race.
8. Macrocyclic rust
9. Edible mushroom
10. Phytoplasma
11. Growth regulators
12. Anastomosis

III. Write short essays on <u>Any six</u> of the following **6X 5 = 30 Marks**

1. Sexual fruiting bodies in fungi
2. Survival and dispersal of plant pathogens
3. Vegetative reproduction in fungi
4. Phanerogamic plant parasites
5. Important taxonomic characters of Basidiomycotina
6. Virus vector relationship
7. Classification of phytopathogenic bacteria
8. Classification of sub-division mastigomycotina upto genera level.

IV. Write essay of Any One **1 x 10 = 10 Marks**

1. Out line the classification of myxomycota. Describe the life cycle of *Plasmodiophora brassicae*
2. Types of life cycles in rust fungi. Describe the life cycle of black stem rust of wheat.