KERALA AGRICULTURAL UNIVERSITY

B.Sc. (Hons.) Agriculture – 2008 Admission - Ist Semester Final Examination - March/April 2009

Title : Path 1101 Max. marks: 80 Course: Introductory Plant Pathology (1+1) Time : 3 hours

			20 X 0.5 = 10 Mark
	I. Fill	up the blanks / State True or False	
	Fill in	the Blanks	
	1,	is an externally seed borne fungal pathogen.	
	2.	Bunchý top of banana is transmitted by the vector	
	3.	is a pcynidal fungus.	
	4.	Motile sporangiospore is called	
		Sesamum phyllody is a disease.	
	7.	is a vegetative spore.	
	8.	Downy mildew diseases are caused by fungi belonging to the order	er
	9.	is a toxin produced the fungus Pyricularia.	and Miles in R
		to a monthly of an account.	
II.		True / False	
	11	. The sexual spore of Phytophthora is ascospore.	
		Phytopathogenic bacteria are prokaryotes.	
		The vector for green gram yellow mosaic virus is whitefly.	
	14.	. Striga is a total root parasite.	
		The resting spore of Rhizoctonia solani is scleretia.	
	16.	Grain smut of sorghum is a monocyclic disease.	
	17.	Oxalis sp is an alternate host for wheat black stem rust disease.	
	18.	Red rust disease is caused by viroid.	
		Asexual spore of Mucor is conidia	
		Female gametagium in Ascomycotina is called Oogonium.	
TII.	Write	answers in word or sentence / Define	
			K 1 = 10 Marks
	-1.	Non motile sporangiospore.	x 1 - 10 Mains
		Saprophyte	
	3.	Pathogen	
	4.	Disease syndrome	
	5.	Pathogenicity	
	6.	Zygospores	
	7	Perithecium	
	8.	Basidospore	
	9.		
	177	Povnidia	

10 x 2 = 20 Marks

- 1. Autoecious rust
- 2. Spiroplasma
- 3. Resting spores
- 4. Homothallism
- 5. Isogametic copulation
- 6. Karyogamy
- 7. Mushroom
- 8. Rhizomorph
- 9. Phytoplasma
- 10. Aecial stage in rust
- 11. Obligate parasite
- 12. Heterothallism

▼ Short Essays (Any four)

 $4 \times 5 = 20$ Marks

- 1. Sexual and Asexual fruiting bodies in fungi.
- 2. General characters and various symptoms caused by viral pathogens.
- 3. Classification of bacteria and their important characters.
- 4. Life cycle of Pythium aphanidermatum

- 5. Classification of sub division Ascomycotina up to genera level.
- 6. Symptoms of bacterial diseases, mode of entry and spread

XIWrite essay of Any Two

 $2 \times 10 = 20 \text{ Marks}$

- Write the important taxonomic characters and classification of sub division Basidiomycotina Write briefly life cycle of *Puccinia gramini tritici*
- 2. Write briefly the reproduction in fungi and Bacteria.
- Mention important characters of Myxomycota. Write briefly the classification of Myxomycota and life cycle and Plasmodiophora brassicae.