

KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Ag. Degree Programme 2015 Admission

IInd Semester Final Examination-August 2016

Cat. No: Path 1101

Title: Introductory Plant Pathology (1+1)

Marks: 50.00

Time: 2 hrs

(10 x 1 =10)

I Fill up the blanks

1. Club root of cabbage is caused by _____
2. *Oidium mangiferae* is having _____ type of mycelium
3. Bengal famine is due to _____ disease.
4. Reproduction of bacterial cells by dividing into two daughter cells is called as _____
5. The enzyme which degrade cutin layer is _____

Match the following

- | | |
|---------------------------|-----------------------------------|
| 6. Irish famine | a. Total root parasite |
| 7. Striga | b. <i>Leveillula taurica</i> |
| 8. Orabanche | c. <i>Corynebacterium tritici</i> |
| 9. Tundu disease | d. Witch weed |
| 10. Chilli powdery mildew | e. <i>Phytophthora</i> |

II Write short notes ANY FIVE

(5 x 2 =10)

1. Role of toxins in pathogenesis
2. Explain asexual reproduction in fungi.
3. Differentiate biotrophs and necrotrophs pathogens with example.
4. Explain the sporangiophore types in downy mildew fungi.
5. Write in detail about different types of ascocarp in Ascomycotina.
6. Write about the different spore stages of rust fungus.
7. Define alternate host and collateral host with examples.

III. Explain ANY FIVE of the following

(5 x 4 =20)

1. Write short notes on general characters and taxonomic characters of division *Myxomycota*.
2. Compare and contrast of *Pythium* and *Phytophthora* life cycle.
3. Illustrate the important taxonomic characters of order Erysiphales.
4. Explain and draw the different types of Teliospore and Urediospore in rust fungi.
5. Write in detail about the life cycle of *Aspergillus* with suitable diagrams.
6. Write notes on important taxonomic character of *Chaetomium* and its structure with suitable diagrams.
7. Symptoms of important viral diseases.

IV. Write essay on ANY ONE

(1 x 10=10)

1. Write the details about the general characters, nature, properties of virus and also virus-vector relationship.
2. Common symptoms of plant diseases caused leg fungi.
