

**KERALA AGRICULTURAL UNIVERSITY**  
B.Sc (Hons.) Ag. Degree Programme 2012 & Previous Admission  
II<sup>nd</sup> Semester Re- Examination-August 2016

Cat. No: Path 1101

Title: **Introductory Plant Pathology (1+1)**

Marks: 80.00

Time: 3 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. Chillii powdery mildew | e. <i>Phytophthora infestans</i>  |

**II Write short notes ANY TEN**

(10 x 3 =30)

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.
8. Define virus and viroids
9. Write short notes on general characteristics of fungi
10. Write in detail about important taxonomic characters of *Rhizopus* and *Mucor*
11. Explain and draw a diagram of Oidium, Oidiopsis and Ovulariopsis with examples.
12. Important taxonomic characters of *pythium* and *phytophthora*

**III. Explain ANY SIX of the following**

(6 x 5 =30)

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.
8. Define following terminology a) pathogenecity b) pathogenesis c) virulence d) incubation period e) inoculum potential

**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 by fungi.

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