



**KERALA AGRICULTURAL UNIVERSITY**  
**B.Sc. (Hons.) Ag. 2017 Admission**  
**I Semester Final Examination-February-2018**

**Path.1101**

**Fundamentals of Plant Pathology (2+1)**

**Marks: 50**  
**Time: 2 hours**  
**(10x1=10)**

**I Fill in the blanks**

- ✓1 A scientist who is regarded as Father of Modern Plant Pathology.....
- 2 The epidemic disease is also referred as .....
- ✓3 A characteristic.....septum found in certain Basidiomycetes fungi.
- ✓4 .....is the causal agent of club root disease of crucifers.
- 5 The sporangia in the chain are separated from each other by means of gelatinous disc is called as .....

**State True or False**

- 6 In Eucarpic thallus the whole thallus becomes reproductive.
- 7 Spermatia are motile minute, spherical uninucleate spore like male sex cells.
- 8 In case of *Mucor* rhizoids are generally absent.
- 9 Operculate ascus is the unitunicate ascus with lid or cap at the apex.
- 10 Acquisition feeding period is the time from which a vector is allowed to feed on a source of a virus.

Recovery and put

**II Write Short notes on ANY FIVE of the following**

**(5x2=10)**

- 1 Satellite virus
- 2 Write the contribution of Nocard and Roux
- ✓3 Spermatization
- 4 Fungi causing powdery mildew
- 5 Acervulus
- ✓6 Koch's postulates
- ✓7 Endospore

**III Answer ANY FIVE of the following**

**(5x4=20)**

- 1 Write the difference between persistent virus and non persistent virus
- ✓2 Write about the clamp connection
- 3 Write about the mode of entry of bacterial plant pathogens
- ✓4 Write about the phytotoxin and vivotoxin
- ✓5 Ascus development
- 6 Write about the phloem inhabiting fastidious bacteria
- 7 Write about the physiological specialization

**IV Write an essay on ANY ONE of the following**

**(1x10=10)**

- 1 Write the taxonomic position of *Pythium* sp and discuss about its life cycle with neat sketches.
- ✓2 Write the taxonomic position of *Puccinia* sp and discuss about its life cycle with neat sketches.

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