

Cat. No: Path.1101

Marks: 80

Title: Introductory plant pathology (1+1)

Time: 3hours

**I State True or False**

(10 x 1=10)

1. Most of the plant viruses are DNA viruses
2. The fruiting body of *Collectotrichum* is acervulus
3. TMV is a mechanically transmitted virus
4. Most species of *Phytophthora* are heterothallic
5. Coconut cadang cadang is caused by a virus

**Name the following**

6. A gram positive plant pathogenic bacterium
7. The vector for bunchy top of banana
8. The pathogen responsible for downy mildew of grapes
9. A nematode transmitted viral disease
10. The ability of pathogen to cause a disease is termed

**II Write short notes on any TEN**

(10 x 3=30)

**Differentiate between (1 to 6)**

1. Powdery mildew and Downy mildew
2. Homothallism and heterothallism
3. *Phytophthora* and *Pythium*
4. Simple interest diseases and Compound interest diseases
5. White rust and black rust
6. Hypertrophy and hyperplasia
7. Classification of phytopathogenic bacteria
8. Virus vector relationship
9. Phanerogamic plant parasites
10. Disease triangle
11. Nomenclature of fungi
12. Role of enzymes in pathogenesis

**III Write short notes on any SIX**

(6 x 5=30)

1. Fungal spores and spore bearing structures
2. Life cycle of *Phytophthora infestans*
3. Cleistothecial appendages in powdery mildew fungi
4. Nature, properties and classification of plant viruses