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Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (Agriculture) (Sem.-2)

**FUNDAMENTALS OF PLANT PATHOLOGY**

Subject Code : BSAG-206-19

M.Code : 77667

Date of Examination : 14-07-22

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

**SECTION-A**

**1. Differentiate between :**

- (a) Biotroph and Hemibiotrophs
- (b) Fastidious bacteria and Spiroplasma
- (c) Disease escape and Tolerance
- (d) Epidemiology and Forecasting
- (e) Sporadic and Endemic disease
- (f) Disease and Disorder
- (g) Ectoparasite and Endoparasite
- (h) Saprophyte and Parasite
- (i) Virus and Viroid
- (j) Stem parasite and Root parasite

## SECTION-B

2. Explain the general characteristics of Plant parasitic Nematode.
3. Give briefly the role of Leeuwenhoek, PMA Millardet, and Kuhn in establishing the science of Plant Pathology.
4. Define Phytoalexins and explain their role in defence mechanisms in plants.
5. Write short note on replication of Plant viruses.
6. Explain with example, how the seed treatment is effective and cheaper control method?

## SECTION-C

7. What do you mean by mycotoxin, phytotoxins and vivotoxins? Explain their mechanism of action of by giving suitable examples.
8. a) Who give Binomial nomenclature and when? Write short note on Binomial system of nomenclature and classification of fungi.  
b) Explain the role of alternate and collateral hosts in disease management.
9. a) Explain the significance of perpetuation of pathogens to outbreak of an epiphytotic.  
b) Define fungicide. How you classify fungicides on the basis of their mode of action?

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**