

5

SVKM's NMIMS
SCHOOL OF AGRICULTURAL SCIENCES AND TECHNOLOGY

Programme: B.Sc. Agriculture

Year: I Semester: I

Academic Year: 2019-20

Subject: Fundamentals of Plant Pathology

Date: 16 December 2019

Marks: 50

Time: 11.00 am - 1.00 pm

Durations: 2 (Hrs)

No. of Pages: 01

Final Examination

Note: Attempt all questions

Q1. Fill in the blanks:

10 X 1 = [10]

- a. _____ worked on Rust of wheat in India.
- b. _____ is known as 'Father of Phytobacteriology'.
- c. If entire plant is affected or pathogen spreads from one point to the entire plant system within a period of time and remains invisible, it is called as _____ disease.
- d. *Pseudomonas* has twitching motility on solid media due to presence of _____.
- e. _____ Virus is transmitted by nematodes.
- f. The plant is capable of carrying on most of the normal metabolic processes in spite of the diseased condition, it is known as _____.
- g. Application of ammonia fertilizer increases severity of _____ diseases.
- h. Late blight of potato, apple scab, downy mildew of grapes and fire blight is increased due to _____ as abiotic factor.
- i. Loose smut of wheat is controlled by _____.
- j. Preventing the entrance and establishment of pathogens in uninfected crops in a particular area is known as _____.

Q2. Give a brief account on any five:

5 X 2 = [10]

1. Classify the disease on the based on Perpetuation
2. Planogametic Copulation
3. Types of Parasitism in phytopathogens
4. Flagellar arrangement in bacteria
5. Types of asexual reproduction in fungi
6. Shapes of Bacteria

Q3. Describe in details:

10 X 3 = [30]

- A. Reproduction in Bacteria
- B. Classify viruses with appropriate examples to families
- C. Factors responsible for Disease infection and Spread.