

6. Fill in the blanks : 1 × 5

- (i) Fungal taxonomic identification CMI Key is located at \_\_\_\_\_.
  - (ii) ITCC is located at \_\_\_\_\_.
  - (iii) Bunchy top of Banana was introduced in to India in the year \_\_\_\_\_.
  - (iv) Endemic disease also known as \_\_\_\_\_ disease.
  - (v) Coffee rust was introduced to India from \_\_\_\_\_ country.
- \_\_\_\_\_

2019

( 2nd Semester )

Time : 2 hours

Full Marks : 50

Answer all questions

*The figures in the right-hand margin indicate marks*

*Candidates are required to answer in their own words as far as practicable*

**(FUNDAMENTALS OF PLANT PATHOLOGY)**

1. Answer the following (any four) : 6 × 4

- (i) Write down system of binomial nomenclature given by different scientists and explain the classification given by G. C. Ainsworth in the year 1966.
- (ii) What do you mean by IPDM ? Explain the methods of plant disease control in brief.

- (iii) Define plant disease and classify disease on the basis of cause and occurrence.
- (iv) Define Biological control. Write down its important mechanisms citing examples.
- (v) How do the plants develop mechanisms of resistance against diseases ? Explain different reactions of disease resistance with respect to Immune, susceptible and tolerance.
- (vi) Write down different characteristics of sub-division Deuteromycotina and its different classes along with order and family at least one fungi in each family.
2. Write short notes of the following (any two) :  $3 \times 2$
- (i) Structure of bacteria
- (ii) Economic importance of Irish famine and Bengal famine
- (iii) Economic importance of plant disease
- (iv) Phenorgamic parasitic plant.

3. Write down the contribution of scientists :  $1 \times 5$
- (i) E. J. Butler
- (ii) B. B. Mundkar
- (iii) K. C. Meheta
- (iv) De Barry
- (v) Fleming.
4. Differentiate (any two) :  $2\frac{1}{2} \times 2$
- (i) Gram + ve and Gram - ve bacteria
- (ii) Rust fungi and Smut fungi
- (iii) Fungal wilt and Bacterial wilt.
5. Match the following :  $1 \times 5$

(i)	De Bary	Father of Virology
(ii)	E. J. Butler	Father and founder of Mycology
(iii)	Graham's Staining	Father of Plant Pathology in India
(iv)	D. Ivanosky	Father of Modern mycology and Plant Pathology
(v)	P. A. Micheli	Differential staining