

Roll No.

Total No. of Pages : 02

Total No. of Questions : 18

B.Sc.(Agriculture) (2014 to 2018) (Sem.-3)

PRINCIPLE OF PLANT PATHOLOGY

Subject Code : BSAG-306

M.Code : 72556

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

Differentiate between :

- Q1. Epidemiology and Forecasting
- Q2. Protozoa and Algae
- Q3. Disease escape and Tolerance
- Q4. Infection and Infestation
- Q5. Sporadic and Endemic disease
- Q6. Stem parasite and root parasite
- Q7. Ectoparasite and Endoparasite
- Q8. Alternate and Collateral host
- Q9. Virus and Viroid
- Q10. Disease and Disorder

SCCTION-B

- Q11. Explain the general characteristics of Plant parasitic bacteria.
- Q12. What is the role of Leeuwenhoek, Tillet, PMA Millardet and Munkur in establishing the science of Plant Pathology?
- Q13. Define Phytoalexins and explain their role in defence mechanisms in plants.
- Q14. Write down brief note on Anguina, Xanthomonas and Ustilago genera.
- Q15. Write a note on cultural management of plant pathogenic nematodes.

SECTION-C

- Q16. a) What is plant quarantine and inspection? Mention diseases which are under quarantine in India.
- b) Why dispersal is essential for a plant pathogen? Give two examples of both disease and pathogen dispersed by wind, insects, water, seed and soil.
- Q17. a) Write general characteristics of genera - Alternaria, Stemphylium, Pencillium and Meloidogyne
- b) Write general characteristics of Phytophthora and illustrate its life cycle.
- Q18. Give short note on :
- a) Physical methods of disease control
- b) Biological control
- c) Survival of plant pathogens by means of specialized resting structures

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.