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BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.Sc.(Ag)-Hons-2022/B.Sc.(Ag)-Hons-2023/B.Sc.(Ag)-Hons-2024

Course Name – Fundamentals of Plant Pathology

Course Code - CC-BAG271(T)

(Semester II)

Full Marks : 50

Time : 2:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 20=20

1. Choose the correct alternative from the following :

- (i) In which year was the Irish Famine first reported?
 - a) 1845
 - b) 1934
 - c) 1876
 - d) 1943
- (ii) What is the origin of the term Pathology?
 - a) Indian
 - b) Latin
 - c) Greek
 - d) French
- (iii) Who is the father of Indian Plant Pathology?
 - a) B.B Mundkur
 - b) K.C Mehta
 - c) E.J Butler
 - d) M.C Srinivasan
- (iv) Which pathogen was partially responsible for Bengal Famine?
 - a) Helminthosporium oryzae
 - b) Fusarium solani
 - c) Puccinia graminis
 - d) Phytophthora infestans
- (v) What are the three components of the disease triangle?
 - a) Susceptible host, virulent pathogen and favourable environment
 - b) Resistant host, avirulent pathogen and unfavourable environment
 - c) Host, pathogen and temperature
 - d) Host, pathogen and humidity
- (vi) Primary inoculum of Sclerotium rolfsii overwinters/oversummers in which of these following?
 - a) Root
 - b) Infected crop debris
 - c) Soil
 - d) Both infected crop debris and soil
- (vii) Infer the phenomenon that is denoted by hypertrophy.

2. Compare between Virus and Viroid. (2.5)
3. Describe the gene-for-gene hypothesis of disease development in plants. (2.5)
4. Name five non-host specific toxins and their producers. (2.5)
5. What is inoculum? Classify inoculum with suitable examples. (2.5)
6. Explain different principles of plant disease management. (2.5)
7. Infer the concept of parasexuality in fungi. (2.5)
8. Illustrate the four types of ascocarp. (2.5)
9. Describe different elements of disease tetrahedron. (2.5)
10. Describe the characteristics of virus. (2.5)
11. Explain the mode of action of copper or sulphur fungicides along with suitable examples. (2.5)

OR

Interpret the different methods of application of fungicides with examples. (2.5)

Group-C

(Long Answer Type Questions)

5 x 1=5

12. Assess the various kinds of hyphal modifications found in fungi with suitable examples. (5)

OR

Assess the structure of a typical bacterial cell. (5)
