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M.Sc. (Third Semester)
EXAMINATION, Dec. - Jan., 2021-22

BOTANY

(Paper Fourth)

(Elective - I)

MOLECULAR PLANT PATHOLOGY - I

[Time : Three Hours] ***[Maximum Marks : 80]***

Note: Attempt all Section as directed.

(Section-A)

(Objective/Multiple Choice Questions)

(1 mark each)

Note : Attempt all Question:

Coose the correct Answer:

1. The Bordeaux Mixture was first time used for the control of -
   (A) Downery mildew disease
   (B) Rust-disease
   (C) Smut disease
   (D) Red rol disease.

P.T.O.

2. A mature particle of plant virus is generally known as:
   (A) Virion
   (B) Capsid
   (C) Viroid
   (D) Nucleocapsid
3. Who did most of his work on rust disease in India ?
   (A) R. Prasad
   (B) Dr. K.C. Mehta
   (C) B.B. Muddukar
   (D) Sporne
4. Race Specific resistance is called -
   (A) Verfical Resistance
   (B) Horizontal Resistance
   (C) Adult Plant Resistance
   (D) Apparent Resistance
5. Little leaf of Brinjal is caused by -
   (A) Fungi
   (B) Bacteria
   (C) Nematodes
   (D) Mycoplasma
6. White rust of crucifers is caused by -
   (A) Ustilago nuda
   (B) Albugo candida
   (C) Alternaria Solani
   (D) Erysiphe Polygoni

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7. Red rust of tea is caused by

(A) fungi

(B) Nematoes

(C) Algae

(D) Virus

8. What colour is shown by gram negative bacteria after staining?

(A) Pale reddish colour.

(B) Blue

(C) Yellow

(D) Orange

9. Which type of spotres of puccinia graminis infect the Barberry Plant?

(A) Teleutospores

(B) uredospores

(C) Basidiospores

(D) Aeciospores

10. Potato famine of Ireland was caused by-

(A) Rhizoctonia Bataticola

(B) Aspergillas niger

(C) Erysiphe Polygoni

(D) Phytophthora infestuns

11. Solar Heat treatment- is applied in the control of-

(A) Powdery mildews

(B) Smut disease

(C) Bunchy top disease

(D) rust disease

12. Damping off fungi includes :

(A) sclerospora

(B) fusarium

(C) Trichoderma

(D) Pythium

13. In certain cases the parts of plants, are being arrested in their growth, This symptom is known as

(A) Hypertrophy

(B) Hyperplasia

(C) Atrophy

(D) Witches broom

14. Puccinia striformis causes

(A) Black rust of wheat

(B) Yellow / stripe rust of wheat

(C) Brown / oragne rust of wheat

(D) None of the above.

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15. The Fungus causing loose smut of wheat belongs to-

(A) Basidiomycetes

(B) Ascomycetes

(C) Deuteromycetes

(D) Phycomycetes

16. Who discovered mycoplasma as a disease incitant organism:

(A) Robert - Brown

(B) Rober- koch

(C) Antoni van leeuwenhock

(D) Nocard& Roux.

17. Who is regarded as the "father of Indian Mycology and Plant Pathology."

(A) T.S. Sodasivan

(B) L.M. Joshi

(C) E. J. Buttler

(D) G.S. Kulkarni

18. The causal organism of crown gall disease in plants is:

(A) Virus

(B) Bacteria

(C) Nema todes

(D) Fungi

19. The causal organism of blast diesease of rice is :

(A) Aspergillus niger

(B) Alternaria alternata

(C) Fusarium solani

(D) Pyricularia oryzae

20. Sclerospora graminicola is the causal organism of:

(A) Potato blight

(B) Green Ear disease of Bajra

(C) Tikka diseaes of Groundnut

(D) None of the above.

Section - B

(Very Short Answer Type Question)

(2 Marks each)

Attempt all questions:

Differentiate between:

1. Gram positive & gram negative bacteria
2. Symptoms of Rust & Smut disease.
3. Constituents of PDA and NAM media.
4. Early & Late blight of potato.
5. Powdary & Downy mildew disease.

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6. Collateral Host & Alternate Host.
7. Haustorium & Appressorium.
8. Hypertrophy & Hyperplasia.

Section - C

(Short Answer Type Questions)

(3 marks each)

Note: Attempt all questions:

1. What are important characters of mycoplasma?
2. What is the significane of Rhizosphere and phyllosphere study.
3. Write the role of toxius in pathogenesis.
4. What is disease triangle?
5. What are the methods of sterilization in Plant Pathology.
6. Write the important points of koch's postulates.
7. What are the factors responsible for the establish ment of an epidemic?
8. What is the role of toxins in Pathogenesis?

Section - D

(Long Answer Type Question)

(5 marks each)

Note: Attempt all questions:

1. Give the general characters of fungi anlong with heterotrophic behaviour with emphasis on parasitism ability and virulence.

   OR

   Write a note on classification ofphul deseases caused by fungi

   OR

   Describe the defferent ways of dissemination of plant pathogens.

3. Write a not on mechanism and pyssiology of Infection in the disease development of plants

   OR

   Describe physiological speciolization with special reference to smuts & rusts

4. Write the techniques requered for intorductory bacterology.

   OR

   Write a note on techniques of in vculation and Isolation of pure cultures of plant pathogenic micro organisms.

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