

M.Sc. BOTANY
Third Semester (Repeat)
PLANT PATHOLOGY & MICROBIOLOGY
(MSB - 301)

Duration: 3Hrs.

Full Marks: 70

Part-A (Objective) =20
Part-B (Descriptive) =50

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.

Marks: 50

Answer any four from Question no. 2 to 8
Question no. 1 is compulsory.

1. Write the symptoms, causal organism, mode of infection and control of blast disease of rice. (2+2+3+3=10)
2. Write briefly about the chemical and biological means of disease control. (5+5=10)
3. Write note on: (5+5=10)
 - a) Control of microorganism
 - b) Pure culture
4. Describe briefly about immunity and immune system. What do you mean by antigen-antibody reaction? (5+5=10)
5. What do you mean by citrus canker? Describe briefly any canker disease in citrus, mentioning the causal organism. (2+8=10)
6. Write the symptom and etiology of red rot of sugarcane. Mention its control measures. (2+5+3=10)
7. Write briefly about scope of microbiology. Write note microbiology of human welfare. (5+5=10)
8. Write a note on vein clearing disease of bhindi. (10)

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Duration: 20 minutes

Marks – 20

(PART A - Objective Type)

I. Choose the correct option:

1×20=20

1. Quality of a pathogen capable of causing disease known as:
a. pathogenesis b. pathogenecity
c. pathotype d. none
2. Disease plants show several valuable symptoms known as:
a. syndrome b. disease cycle
c. infectious disease d. none
3. Causal organism of blast of rice:
a. helminthosporium b. pyricularia
c. erysiphye d. none
4. Powdery, mildew of pea caused by:
a. mucor b. erisiphye
c. rizopus d. none
5. Schomycetes also known as:
a. mushroom b. sac fungi
c. pin mold d. none
6. Deuteromycetes is also known as a:
a. PPLO b. slim molds
c. fungi imperfecti d. all
7. Nut fall disease present in:
a. sugarcane b. coconut
c. arecanut d. none
8. Mycoplasma also known as:
a. PPLO b. slim molds
c. pin molds d. none
9. Gills are present in:
a. ascomycetes b. basidiomycetes
c. phycomytese d. none

10. Bud rot disease occurs in:
a. zingiber b. coconut
c. citrus fruits d. none
11. Coenocytes mycelium present in:
a. mucor b. aspergillus
c. penicilium d. none
12. Doumble shaped conidia found in:
a. erysiphye b. pythium
c. basidiomycetes d. none
13. In helminthosporium conidia are:
a. septate b. aseptate
c. both d. none
14. Aflatoxin secreted by:
a. penicilium b. aspergillus
c. both d. none
15. Cell wall of fungi is composed of:
a. cellulose b. chitin
c. both d. none
16. Heterothalim was discovered by:
a. Hooker b. Louis Pasteur
c. Blakes Lee d. None
17. Skin disease caused by the fungi:
a. dermatophytes b. saprophytes
c. parasytes d. none
18. Spherical shape of bacteria is known as:
a. spirilla b. rod shape
c. both d. cocci
19. Genetic material of TMV is:
a. DNA b. RNA
c. both d. none
20. Plasmid is found in:
a. fungi b. algae
c. bacteria d. none
