



K23U 2331

Reg. No. :

Name :

V Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/
Improvement) Examination, November 2023
(2019 – 2021 Admissions)

CORE COURSE IN BOTANY/PLANT SCIENCE

5B08BOT/PLS : Microbiology, Mycology, Lichenology and Phytopathology

Time : 3 Hours

Max. Marks : 40

Instruction : Draw diagrams *wherever* specified.

PART – A
(Objective Type Questions)

Answer **all**.

(4×1=4)

- Algal bloom is caused due to
a) Pollution
b) Eutrophication
c) Effluent
d) Deoxygenation
- Two celled spore of rust of wheat is
a) Uredial
b) Telial
c) Basidial
d) Aecidial
- Meloidogyne incognita* causes
a) Soft rot
b) Quick wilt
c) Mosaic disease
d) Root knot
- The region around the root is called
a) Rhizosphere
b) Rhizotone
c) Lithosphere
d) Phylloplane

PART – B
(Short Essay Questions)

Answer **any eight**.

(8×2=16)

- What is VAM ? Discuss its significance.
- Write down the characteristic features of Deuteromycetes.

P.T.O.



7. Describe the structure of *Penicillium* with illustration.
8. Comment on Acervulus. Give example.
9. Write notes on the ecological significance of fungi.
10. What are Rickettsiae ?
11. Describe the transduction in Bacteria.
12. Give an account of structure of HIV.
13. Draw and describe Mycoplasma.
14. Write notes on bio-fertilizers.
15. Discuss various safety measures to be followed in microbiology laboratory.
16. Write a short note on basidiocarp of Agaricus.

PART – C
(Essay Questions)

Answer **any four**.

(4×3=12)

17. Discuss serial dilution technique.
18. Explain the causal organism, symptoms and control measures of Bunchy top of Banana.
19. Describe the life cycle of *Usnea*.
20. Describe the procedure of Gram staining.
21. Explain the structure of TMV with illustration.
22. List out the characteristic features of Basidiomycetes.

PART – D
(Long Essay Questions)

Answer **any one**.

(1×8=8)

23. Explain the causal organisms, symptoms and control measures of a bacterial, fungal and nematode disease in the syllabus.
 24. Describe the ultra-structure of a bacterial cell and add a note on its flagellum.
 25. Explain the structure and life cycle of *Saccharomyces*. Add a note on its economic importance.
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