



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
 - Pollution
 - Eutrophication
 - Effluent
 - Deoxygenation
- Two celled spore of rust of wheat is
 - Uredial
 - Telial
 - Basidial
 - Aecidial
- Meloidogyne incognita* causes
 - Soft rot
 - Quick wilt
 - Mosaic disease
 - Root knot
- The region around the root is called
 - Rhizosphere
 - Rhizotone
 - Lithosphere
 - 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.

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

PART – C
(Essay Questions)

Answer any four.

(4×3=12)

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

PART – D
(Long Essay Questions)

Answer any one.

(1×8=8)

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