



K24U 2716

Reg. No. :

Name :

V Semester B.Sc. Degree (C.B.C.S.S. – O.B.E. – Regular/Supplementary/
Improvement) Examination, November 2024
(2019 to 2022 Admissions)
CORE COURSE IN BOTANY/PLANT SCIENCE
5B08 BOT/PLS : Microbiology, Mycology, Lichenology and
Phytopathology

Time : 3 Hours

Max. Marks : 40

PART – A
(Objective Type Questions)

Answer all questions. (4x1=4)

- Which of the following is a bacterial disease ?
a) Citrus canker b) HIV c) SARS-COV d) Ebola
- The fungal partner in mycorrhizae is usually
a) Bacteria b) Virus c) Algae d) Fungus
- Which of the following is an endophytic microorganism ?
a) Rhizobium b) Acetobacter c) Azospirillum d) Vibrio
- The region where lichen is used as a pollution indicator is
a) Lithosphere b) Hydrosphere c) Atmosphere d) Stratosphere

PART – B
(Short Essay Questions)

Answer any eight. (8x2=16)

- Discuss the structure of a bacteriophage.
- Write down the characteristic features of Ascomycetes.
- Write a short note on the economic importance of Penicillium.

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- Explain the classification of mycorrhizae.
- Discuss the role of biocontrol agents in pest management.
- Describe the laboratory protocol for studying the causal organism of grey leaf spot of coconut.
- Write a note on the mycology of Aspergillus.
- What is Ectomycorrhiza ? Write two of its significance.
- What are Mycoplasma ?
- Describe the different types of biofertilizers.
- Describe the thallus structure of crustose lichen.
- Write a note on pycnidia.

PART – C
(Essay Questions)

Answer any four. (4x3=12)

- Discuss the role of fungi in industrial applications.
- Explain the management practices for Mahali disease of arecanut.
- Describe the life cycle and economic importance of Penicillium.
- Describe the spore staining procedure.
- Explain the serial dilution technique for microbial count.
- Write a note on Zygomycetes with examples.

PART – D
(Long Essay Questions)

Answer any one. (1x8=8)

- Explain the life cycle of Peziza with suitable diagrams.
- Discuss the replication cycle of TMV.
- Explain the causal organisms and symptoms of citrus canker, quick wilt of pepper, abnormal leaf fall of rubber and soft rot of ginger.