



K21P 4172

Reg. No. :

Name :

I Semester M.Sc. Degree (CBSS – Reg./Supple./Imp.)
Examination, October 2021
(2018 Admission Onwards)
BOTANY
BOT1C02 : Microbiology and Plant Pathology

Time : 3 Hours

Max. Marks : 60

Instruction : Draw diagrams wherever necessary.**SECTION – A**

1. a) Write an account on Tikka disease of ground nut and bud rot of coconut.
OR

b) Explain industrial production of vinegar.

2. a) Describe various types of bioreactors.

OR

b) Write an account on the structure of bacterial flagella and pili.

(2×8=16)

SECTION – B

Answer any two :

3. a) Describe plant quarantine measures.

b) Briefly describe chemotaxis.

c) Write an account on transmission of plant viruses.

(1+2+3)

4. a) Describe the process of production of penicillin.

b) Describe the growth curve of bacteria.

c) Write an account on the structure of viroids.

(1+2+3)

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5. a) Causal organism and control measures of black rust of wheat.

b) Maintain aseptic conditions in Biofermentors.

c) Describe cell wall structure of bacteria.

(1+2+3)

(2×6=12)

SECTION – C

Answer any six :

6. Iatrogenic plant diseases.

7. Putrefaction.

8. Polygenic resistance.

9. Special staining.

10. Nutritional deficiencies.

11. Mollicutes.

12. Phototrophs

13. Structure of HIV virus.

(6×3=18)

SECTION – D

Answer any seven :

14. Pure culture.

15. An-aerobiosis.

16. Lyophilization.

17. Obligate parasites.

18. Two plant pathogenic angiospermic plants.

19. Prions.

20. Nitrification.

21. Host specific toxins.

22. Rhizosphere.

23. Rennin.

(7×2=14)