K19P 1474

Reg. No. : .....

Name : .....

I Semester M.Sc. Degree (CBSS-Reg./Suppl.Imp) Examination, October - 2019

(2014 Admission Onwards)

BOTANY

BOT1 C 02- MICROBIOLOGY AND PLANT PATHOLOGY

Time : 3 Hours Max. Marks : 60

Instruction: Draw diagrams wherever necessary.

SECTION-A

Answer any **Two**. **(2x8=16)**

1. a. Write an account on ultrastructure of Bacterial cell wall.

(OR)

b. Describe the structure and replication of TMV.

2. a. Explain bacterial growth and factors affecting growth.

(OR)

b. Describe the design and applications of biofermentors.

SECTION B

Answer any **Two.** **(1+2+3)**

3. a. Mention two abiotic agents of plant disease.
   b. What is monogenic resistance?
   c. What is meant by differential media?

4. a. What is peptidoglycan? **(1+2+3)**
   b. Explain virion structure.
   c. Describe disinfectants.

P.T.O.

5. a. Mention the causative agent of bud rot of coconut. **(1+2+3)**
   b. Describe the chemistry and structure of flagella.
   c. Describe the epidemiology of tikka disease of groundnut.

SECTION - C

Answer any **Six**. **(6×3=18)**

6. Describe the production of Insulin.
7. Explain resistance to antibiotic.
8. What are anaerobic microbes?
9. Describe the importance of toxic residues in food.
10. Explain new technologies in crop improvement for disease resistance.
11. Describe the etiology and management of nut fall of arecanut.
12. Write a note on radiation method of sterilization.
13. Write an account of bacterial genome.

SECTION - D

Answer any **Seven**. **(7×2=14)**

14. Bacteriophage.
15. Prion.
16. Production of lactic acid.
17. Crown gall.
18. Biosensor.
19. Humoral immunity.
20. Causal agent of red rot of sugarcane.
21. Mycoplasma.
22. Microbes in recycling process.
23. Biocontrol.
