



K15P 0276

Reg. No. : .....

Name : .....

I Semester M.Sc. Degree (Reg./Sup./Imp.) Examination, November 2015  
(2014 Admn. Onwards)  
**BOTANY**  
**BOT1C02 : Microbiology and Plant Pathology**

Time : 3 Hours

Max. Marks : 60

**Instruction : Draw diagrams wherever necessary.**

**SECTION – A**

1. a) Explain in detail the nomenclature and classification of plant viruses.  
OR  
b) Give a general design and application of bioreactors.
2. a) Give an account on symptom, etiology and control of coffee leaf rust.  
OR  
b) Describe in detail various methods of controlling plant diseases. **(2x8=16)**

**SECTION – B**

Answer any two :

3. a) What is the difference between flagella and pili ? **1**  
b) Write about serological methods. **2**  
c) Write about synchronous culture. **3**
4. a) Explain Replications of plant viruses. **3**  
b) Write about economic importance of actinomycetes. **2**  
c) What are food borne pathogens ? **1**
5. a) Explain Tikka disease of groundnut. **2**  
b) Write any two causative agents of diseases causing fungi. **1**  
c) Describe plant quarantine measures. **3**

**(2x6=12)**

P.T.O.



SECTION - C

Answer any six :

- 6. Describe serological methods.
- 7. What are plasmids ?
- 8. Mention the importance of filter sterilization.
- 9. What are interferons ?
- 10. What are Abiotic agents ?
- 11. Describe pollutants.
- 12. What are toxic residues ?
- 13. What is the role of chemical agents ? (6x3=18)

SECTION - D

Answer any seven :

- 14. Chloramphenicol
- 15. Pili
- 16. Auxinic culture
- 17. TMV
- 18. Crown gall
- 19. Mycoplasma
- 20. Powdery mildew
- 21. Pathogenesis
- 22. Triangle disease
- 23. Plasmodium. (7x2=14)