

Q.P. Code - 42543

**Fifth Semester B.Sc. Degree Examination,
October/November 2019**

(CBCS Semester Scheme)

Microbiology

**Paper V (5.1) - AGRICULTURAL AND ENVIRONMENTAL
MICROBIOLOGY**

Time : 3 Hours]

[Max. Marks : 90

Instructions to Candidates :

1. *Answer ALL Parts.*
2. *Draw diagrams wherever necessary.*

PART - A

Answer any **TEN** questions in 1 or 2 sentences :

(10 × 2 = 20)

1. Actinomycets
2. Biodegradation
3. VAM
4. Root nodules
5. Azospirillum
6. Biopesticide.
7. Sandal spike disease
8. Coffee rust
9. Bioaerosol
10. Chlorination
11. Vertical cylinder trap
12. Amoebiasis.



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PART- B

Answer any **EIGHT** of the following :

(8 × 5 = 40)

13. Explain soil profile in detail.
14. Give an account of biodegradation of pesticides.
15. Explain sulphur cycle.
16. Write a note on control and management of plant diseases.
17. Give an account of :
 - (a) Azotobacter as biofertilizer
 - (b) Hirst spore trap.
18. Write a note on :
 - (a) Antagonism
 - (b) Plasmopora Viticola.
19. Write a note on atmospheric layers.
20. Explain the sources and types of water pollution.
21. Briefly explain the biohazards in occupational environment.
22. Discuss the etiology, pathogenesis and treatment of Hepatitis A.

PART - C

Answer any **THREE** of the following :

(3 × 10 = 30)

23. Explain nitrogen cycle in detail.
24. Discuss Bacillus Thuringiensis and NPV as biopesticides.
25. Describe the symptoms, treatment and control of Tomato leaf curl and grassy shoot disease.
26. Discuss the distribution of microorganisms in aquatic environment.
27. Explain the steps involved in waste water treatment.