

**Time: Three Hours****Max. Marks: 100 Marks****MICROBIOLOGY -Paper -I
(RS2 & RS3 SCHEME)****QP Code: 1083**

Your answers should be specific to the questions asked

Draw neat labeled diagrams wherever necessary

LONG ESSAYS**2 x 10 = 20 Marks**

1. Define and Classify Immunity. Discuss Innate immunity. (1+3+6)
2. Enumerate medically important Spirochaetes along with diseases caused. Describe pathogenesis and laboratory diagnosis of Leptospirosis. (3+3+4)

SHORT ESSAYS**10 x 5 = 50 Marks**

3. Bacterial filters
4. Meningococcal meningitis
5. Genetic transfer by conjugation and its significance
6. Briefly write the factors predisposing to microbial pathogenicity
7. Applications of agglutination reactions
8. Non sporing anaerobes
9. Delayed hypersensitivity
10. Non suppurative complications of Streptococcus pyogenes infections and its laboratory diagnosis.
11. Pathogenesis of Tetanus
12. Laboratory diagnosis of leprosy.

SHORT ANSWERS**10 x 3 = 30 Marks**

13. Contributions of Robert Koch to microbiology
14. Anaerobic culture media
15. Enumerate methods of antimicrobial susceptibility testing and write principle of each
16. Structure of Major Histocompatibility Complex
17. Name primary lymphoid organs and write their functions
18. Cutaneous anthrax
19. Enzymes and toxins of Staphylococcus aureus
20. Cholera specimen – name three transport media with their uses
21. Vaccine for Typhoid
22. Laboratory diagnosis of Mycoplasma infections
