

**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. Enumerate antigen antibody reactions. Describe the various types and applications of agglutination reaction. [3+ 7]
2. Describe the pathogenesis and laboratory diagnosis of cholera. [5+5]

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

3. Bacterial flagella
4. Chemical disinfectants
5. Various types of culture media and their uses
6. Bacterial plasmids
7. Pathogenesis of *Corynebacterium diphtheriae*
8. Monoclonal antibodies
9. Type III hypersensitivity
10. Brucellosis
11. Laboratory diagnosis of extra pulmonary tuberculosis
12. *Helicobacter pylori*

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

13. Koch's postulates
14. Bacterial exotoxins
15. Enumerate biological effects of complement
16. Functions of Ig G
17. Enumerate bacteria causing sexually transmitted infections.
18. Pulmonary anthrax
19. Rapid plasma reagin test
20. Enumerate diseases caused by *Haemophilus influenzae*
21. Inclusion conjunctivitis
22. Laboratory diagnosis of Meningococcal meningitis
