

Time: 3 Hrs.

[Max. Marks: 100]

**MICROBIOLOGY - PAPER I (Revised Scheme)****QP Code: 1058**

Your answers should be specific to the questions asked.  
Draw neat labeled diagrams wherever necessary.

**LONG ESSAY****2 X 9 = 18 Marks**

1. Enumerate the organisms causing Urinary Tract Infections. How will investigate a case of Urinary Tract Infection in Microbiology Laboratory?
2. What are Immunoglobulins? Give an account of structure, classification and function of Immunoglobulin G (IgG)

**SHORT ESSAY****10 X 5 = 50 Marks**

3. Transduction
4. Pasteurization
5. Methods of isolation of bacteria
6. Nagler reaction
7. Anaphylaxis
8. Staphylococcal food poisoning
9. Laboratory diagnosis of cholera
10. Dark field microscopy
11. Septicaemia
12. Immunisation Schedule

**SHORT ANSWERS****16 X 2 = 32 Marks**

13. Enumerate lesions caused by Chlamydia
14. Draw a labeled diagram of direct smear from a case of Vincent's angina
15. Non Agglutinable Cholera Vibrios
16. Enteropathogenic E. coli
17. Enumerate four lesions caused by non-sporing anaerobes
18. Give principle of autoclave
19. Mention two important differences between active and passive immunity
20. Enumerate lesions caused by staphylococcus aureus
21. Draw a labeled diagram of McIntosh Field's jar
22. Mention principle of methyl red test
23. Uses of mouse in microbiology
24. Collection of sputum for laboratory diagnosis of tuberculosis
25. Enumerate four important discoveries by Louis Pasteur
26. Enumerate on stationary phase in bacterial growth curve
27. Mention a biological sterilization control EACH for autoclave and hot air oven
28. Primary Atypical Pneumonia

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