



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION - MEDICAL LAB. TECHNOLOGY

SECOND SEMESTER – APRIL 2013

ML 2814/2810 - MEDICAL MICROBIOLOGY

Date : 26/04/2013

Dept. No.

Max. : 100 Marks

Time : 9:00 - 12:00

PART – A

Answer **ALL** the Questions:

(10x2 = 20 Marks)

1. Enumerate the contributions of Louis Pasteur.
2. Classify bacteria based on pH.
3. What is TSS?
4. Give the tests that help to differentiate *Streptococcus pneumoniae* from *Streptococcus viridians*.
5. Enlist the properties of viruses
6. What are the various cytopathic effects produced by viruses?
7. Mention the morphological classification of medically important fungi, with examples.
8. What are the two types of asexual spores produced by fungi?
9. Tabulate the differentiating features of helminthes.
10. What is Ghon focus?

PART – B

Answer any **FOUR** of the following:

(4x10 = 40 Marks)

11. Explain the different phases of the microbial population growth curve.
12. Write briefly on the structure and function of bacterial cell wall.
13. Elaborate the pathogenic variants of *E.coli*.
14. Write notes on the etiologic agent, transmission and pathogenesis of infectious hepatitis.
15. Give an account of the infections caused by Aspergillus.
16. Describe the lifecycle of *Entamoeba histolytica*.

PART- C

Answer any **TWO** of the following:

(2x20 = 40 Marks)

17. Describe the morphological characteristics, virulence factors, pathogenesis and diagnosis of *Salmonella typhi*.
18. What are the different methods of cultivation of viruses? Explain egg inoculation.
19. Discuss Histoplasmosis and Blastomycosis.
20. Explain the life cycle and pathogenesis of *Trypanosoma brucei* and *Trypanosome cruzi*.
