

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MD 0522]

MAY 2022

Sub. Code: 2015

**M.D. DEGREE EXAMINATION
BRANCH IV – MICROBIOLOGY
PAPER II – SYSTEMATIC BACTERIOLOGY
*Q.P. Code: 202015***

Time: Three Hours

Maximum: 100 Marks

I. Essay: (2 x 15 = 30)

1. Describe in brief the pathogenesis, clinical manifestations and lab diagnosis of Leptospirosis.
2. Enumerate the common agents causing community acquired pneumonia. Describe in detail the pathogenesis, clinical features and the laboratory diagnosis of pneumococcal pneumonia.

II. Short notes: (10 x 5 = 50)

1. Lab diagnosis of infection caused by Neisseria meningitidis.
2. Congenital syphilis.
3. Brucellosis.
4. Necrotising fasciitis.
5. Diphtheroids.
6. Relapsing fever caused by Borrelia species.
7. Toxins produced by Staphylococcus aureus.
8. Non sporing anaerobes.
9. Listeria monocytogenes.
10. Rapidly growing mycobacteria.

III. Reasoning Out: (4 x 5 = 20)

1. Gas gangrene is usually associated with cases of severe crush injury.
2. Weil Felix reaction may be useful in diagnosing Rickettsial infections.
3. Lowenstein – Jensen's medium is sterilized by tyndallization.
4. It is advised to avoid consumption of raw or half cooked eggs.
