

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

[MD 1223]

**DECEMBER 2023
(OCTOBER 2023 EXAM SESSION)**

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 the Cell wall, pathogenesis, conventional, automated and molecular methods to detect Mycobacterium Tuberculosis.
2. Enumerate the aetiology, pathogenesis and laboratory diagnosis of Bacterial Meningitis.

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

1. Laboratory diagnosis of urinary tract infections.
2. Panton Valentine Leukocidin toxin.
3. Diptheroids causing infections.
4. Klebsiella granulomatis.
5. Non Gonococcal urethritis.
6. Bacteroides fragilis.
7. Q fever.
8. Satellitism.
9. Laboratory diagnosis of Lyme disease.
10. Tularemia.

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

1. Bacteria showing swarming growth was isolated repeatedly from a patient with urolithiasis.
2. Granules were observed better from growth on loeffler's serum slope.
3. A boy developed fever and myalgia with black eschar on his body.
4. Bacteria was isolated from cetrimide ointment used as antiseptic.
