

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

[MD 1223]

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

Sub. Code: 2017

M.D. DEGREE EXAMINATION

BRANCH IV – MICROBIOLOGY

**PAPER IV – MYCOLOGY, APPLIED MICROBIOLOGY AND
RECENT ADVANCES**

Q.P. Code: 202017

Time: Three Hours

Maximum: 100 Marks

I. Essay: **(2 x 15 = 30)**

1. Enumerate cutaneous fungal infections caused by dermatophytes. Describe the morphology, pathogenesis and laboratory diagnosis of *Trichophyton rubrum*.
2. What is Bio-medical Waste? Discuss about the generation, segregation, collection, transport and disposal methods of bio medical waste as per the existing rules.

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

1. Chromoblastomycosis.
2. Laboratory diagnosis of Histoplasmosis.
3. Piedra.
4. Lobomycosis.
5. Reynolds-Braude phenomenon.
6. Milk Ring Test.
7. Ventilator Associated Pneumonia.
8. Faecal Microbiota Transplantation for Inflammatory Bowel Disease.
9. Audit of antibiotic prescribing practice in a tertiary care hospital.
10. DNA vaccine.

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

1. Yellow granules were observed in the wound dressing of a patient with lesion in the neck.
2. Sabouraud dextrose agar pH is acidic.
3. Incidence of surgical site infections is less in operation theatres with laminar air flow.
4. Patient is kept in positive pressure room after liver transplant surgery.
