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

[MD 0524] **MAY 2024** **Sub. Code: 4057**

M.D. DEGREE EXAMINATION

BRANCH XX – DERMATOLOGY, VENEREOLOGY AND LEPROSY
PAPER I – BASIC SCIENCES AS APPLIED OF DERMATOLOGY, STDs AND LEPROSY

Q.P. Code: 204057

Time: Three Hours **Maximum: 100 Marks**

(ANSWER SECTION A & B SEPARATELY)

SECTION – A

DERMATOLOGY AND LEPROSY

Write notes on:

I. ANATOMY: **(2 x 5 = 10)**
1. Embryonic development of human skin.
2. Anchoring fibrils.

II. PHYSIOLOGY: **(2 x 5 = 10)**
1. Hair cycle.
2. Physiology of human perspiration.

III.BIO-CHEMISTRY: **(2 x 5 = 10)**
1. Pathway of Heme biosynthesis and its importance.
2. Vitamin B3 (Niacin).

IV. PHARMACOLOGY: **(2 x 5 = 10)**
1. Tofacitinib.
2. Hydroxychloroquine.

V. PATHOLOGY: **(2 x 5 = 10)**
1. Histopathology of Trichoepithelioma.
2. Various biopsy techniques.

VI. MICROBIOLOGY: **(2 x 5 = 10)**
1. Bacteriological index.
2. Herpes viruses.

SECTION B – VENEREOLOGY

I. ANATOMY: **(2 x 5 = 10)**
1. Lymphatic drainage of female genitalia.
2. Male Urethra.

II. PHYSIOLOGY: **(2 x 5 = 10)**
1. Prostatic fluid.
2. Vaginal flora.

III.BIO-CHEMISTRY: **(1 x 5 = 5)**
1. Sniff and whiff test.

IV. PHARMACOLOGY: **(1 x 5 = 5)**
1. Dolutegravir.

V. PATHOLOGY: **(1 x 5 = 5)**
1. Pathology of Gumma.

VI. MICROBIOLOGY: **(1 x 5 = 5)**
1. In pouch Trichomonas vaginalis culture.

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

[MD 1224] **DECEMBER 2024** **Sub. Code: 4057**

(OCTOBER 2024 EXAM SESSION)

M.D. DEGREE EXAMINATION

DERMATOLOGY, VENEREOLOGY AND LEPROSY

PAPER I – BASIC SCIENCES AS APPLIED TO DERMATOLOGY, STDs AND LEPROSY

Q.P. Code: 204057

Time: Three Hours **Maximum: 100 Marks**

(ANSWER SECTION A & B SEPARATELY)

SECTION – A

DERMATOLOGY AND LEPROSY

Write notes on:

I. ANATOMY: **(2 x 5 = 10)**

1. Dendritic cells.
2. Blood supply of dermis.

II. PHYSIOLOGY: **(2 x 5 = 10)**

1. Odland bodies and its function.
2. Trans Epidermal Water Loss.

III.BIO-CHEMISTRY: **(2 x 5 = 10)**

1. Extracellular Matrix.
2. Composition of Sweat.

IV. PHARMACOLOGY: **(2 x 5 = 10)**

1. Azathioprine.
2. Terbinafine.

V. PATHOLOGY: **(2 x 5 = 10)**

1. Special stains in dermatology.
2. Types of granulomas.

VI. MICROBIOLOGY: **(2 x 5 = 10)**

1. Special stains in a cutaneous infection.
2. Pediculosis.

SECTION-B

STDs

I. ANATOMY: **(2 x 5 = 10)**

1. Anatomy of Prostate.
2. Anatomy of Vagina.

II. PHYSIOLOGY: **(2 x 5 = 10)**

1. G Spot.
2. Semen analysis.

III.BIO-CHEMISTRY: **(1 x 5 = 5)**

1. Auxotyping of Neisseria gonorrhea.

IV. PHARMACOLOGY: **(1 x 5 = 5)**

1. Imiquimod.

V. PATHOLOGY: **(1 x 5 = 5)**

1. Cervical cytology.

VI. MICROBIOLOGY: **(1 x 5 = 5)**

1. Structure of HIV.

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

[MD 0525] **MAY 2025** **Sub. Code: 4057**

M.D. DEGREE EXAMINATION

DERMATOLOGY, VENEREOLOGY AND LEPROSY

PAPER I – BASIC SCIENCES AS APPLIED TO DERMATOLOGY, STDs AND LEPROSY

Q.P. Code: 204057

Time: Three Hours **Maximum: 100 Marks**

(ANSWER SECTION A & B SEPARATELY)

SECTION – A

DERMATOLOGY AND LEPROSY

Write notes on:

I. ANATOMY: **(2 x 5 = 10)**

1. Structure of Nail.
2. Epidermal Melanin Unit.

II. PHYSIOLOGY: **(2 x 5 = 10)**

1. Itch pathway.
2. Meirowsky Phenomenon.

III.BIO-CHEMISTRY: **(2 x 5 = 10)**

1. Adhesion molecules.
2. Melanin synthesis.

IV. PHARMACOLOGY: **(2 x 5 = 10)**

1. Interferons in Dermatology.
2. Gene therapy in Dermatology.

V. PATHOLOGY: **(2 x 5 = 10)**

1. Dyskeratosis.
2. Grenz zone.

VI. MICROBIOLOGY: **(2 x 5 = 10)**

1. Ultrastructure of Mycobacterium Leprae.
2. Polymerase Chain Reaction.

SECTION B

STDs

I. ANATOMY: **(2 x 5 = 10)**

1. Tyson's glands.
2. Pearly penile papules.

II. PHYSIOLOGY: **(2 x 5 = 10)**

1. Argyll Robertson Pupil.
2. Erection.

III.BIO-CHEMISTRY: **(1 x 5 = 5)**

1. CSF in neurosyphilis.

IV. PHARMACOLOGY: **(1 x 5 = 5)**

1. Sildenafil citrate.

V. PATHOLOGY: **(1 x 5 = 5)**

1. Histopathology of Chancroid.

VI. MICROBIOLOGY: **(1 x 5 = 5)**

1. Western Blot Test.

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

[MD 1025] **OCTOBER 2025** **Sub. Code: 4057**

M.D. DEGREE EXAMINATION

DERMATOLOGY, VENEREOLOGY AND LEPROSY

PAPER I – BASIC SCIENCES AS APPLIED TO DERMATOLOGY, STDs AND LEPROSY

Q.P. Code: 204057

Time: Three Hours **Maximum: 100 Marks**

(ANSWER SECTION A & B SEPARATELY)

SECTION – A

DERMATOLOGY AND LEPROSY

Write notes on:

I. ANATOMY: **(2 x 5 = 10)**

1. Weibel-Palade bodies.
2. Types of elastic fibres.

II. PHYSIOLOGY: **(2 x 5 = 10)**

1. Thermoregulation.
2. Composition of sebum and functions.

III.BIO-CHEMISTRY: **(2 x 5 = 10)**

1. Biochemical lab diagnosis of Porphyrias.
2. Interleukins.

IV. PHARMACOLOGY: **(2 x 5 = 10)**

1. Calcineurin inhibitors.
2. Mycophenolate Mofetil.

V. PATHOLOGY: **(2 x 5 = 10)**

1. Types of giant cells.
2. Interface dermatitis.

VI. MICROBIOLOGY: **(2 x 5 = 10)**

1. Demodex folliculorum.
2. Slit skin smear in leprosy.

SECTION - B

STDs

I. ANATOMY: **(2 x 5 = 10)**

1. Cowper's glands.
2. Nabothian follicles.

II. PHYSIOLOGY: **(2 x 5 = 10)**

1. Testis and its functions.
2. Physiological vaginal discharge.

III.BIO-CHEMISTRY: **(1 x 5 = 5)**

1. Amsel criteria.

IV. PHARMACOLOGY: **(1 x 5 = 5)**

1. Podophyllin.

V. PATHOLOGY: **(1 x 5 = 5)**

1. Histopathology of Molluscum contagiosum.

VI. MICROBIOLOGY: **(1 x 5 = 5)**

1. Darkfield microscope.

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

[MD 0526] **MAY 2026** **Sub. Code: 4057**

M.D. DEGREE EXAMINATION

DERMATOLOGY, VENEREOLOGY AND LEPROSY

PAPER I – BASIC SCIENCES AS APPLIED TO DERMATOLOGY, STDs AND LEPROSY

Q.P. Code: 204057

Time: Three Hours **Maximum: 100 Marks**

(ANSWER SECTION A & B SEPARATELY)

SECTION – A

DERMATOLOGY AND LEPROSY

Write notes on:

I. ANATOMY: **(2 x 5 = 10)**

1.Anatomy of hair follicle.

2.Basement membrane zone.

II. PHYSIOLOGY: **(2 x 5 = 10)**

1.Langerhan's cells and its function.

2.Desmosomes and its function.

III.BIO-CHEMISTRY: **(2 x 5 = 10)**

1.Androgen metabolism and skin.

2.Vitamin B12.

IV. PHARMACOLOGY: **(2 x 5 = 10)**

1.Topical antifungals.

2.Adalimumab.

V. PATHOLOGY: **(2 x 5 = 10)**

1.Prenatal diagnosis of Genodermatoses.

2.Cytodiagnosis in dermatology.

VI. MICROBIOLOGY: **(2 x 5 = 10)**

1.Cutaneous antimicrobial peptides.

2.Immunology of leprosy.

SECTION - B

STDs

I. ANATOMY: **(2 x 5 = 10)**

1.Anal Canal.

2.Fallopian tube.

II. PHYSIOLOGY: **(2 x 5 = 10)**

1.Physiology of ejaculation.

2.Vaginal PH.

III.BIO-CHEMISTRY: **(1 x 5 = 5)**

1.Carbohydrate assimilation (fermentation) tests for candida.

IV. PHARMACOLOGY: **(1 x 5 = 5)**

1. Fostemsavir.

V. PATHOLOGY: **(1 x 5 = 5)**

1. Pathology of Donovanosis.

VI. MICROBIOLOGY: **(1 x 5 = 5)**

1. Structure of Treponema Pallidum.

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