

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.

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

[MD 1224]

**DECEMBER 2024
(OCTOBER 2024 EXAM SESSION)**

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. 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.

M.D. DEGREE EXAMINATION

DERMATOLOGY, VENEREOLOGY AND LEPROSY

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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. Meirrowsky 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.

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.
