

M.D. DEGREE EXAMINATION**BRANCH XX – DERMATOLOGY, VENEREOLOGY AND LEPROSY****APPLIED BASIC SCIENCES****Q.P. Code : 202093****Time : 3 hours
(180 Min)****Maximum : 100 marks****Answer ALL questions in the same order.****Write Section A and Section B Separately.****SECTION A****DERMATOLOGY AND LEPROSY****Write notes on**

	Pages (Max.)	Time (Max.)	Marks (Max.)
I. ANATOMY			
1. Describe the Pilosebaceous unit.	3	9	5
2. Write about the anatomy and types of Elastic fibers of the skin.	3	9	5
II. PHYSIOLOGY			
1. Describe the itch pathway.	3	9	5
2. Write about the importance of Trans -epidermal water loss.	3	9	5
III. BIO-CHEMISTRY			
1. Write about the applied biochemistry of Phenyl ketonuria.	3	9	5
2. Write about the functions of Melanocyte Stimulating Hormone.	3	9	5
IV. PATHOLOGY			
1. Mention the causes of micro- abscesses in dermatology.	3	9	5
2. Write about the types of skin biopsy.	3	9	5
V. PHARMACOLOGY			
1. Mention various dressings in dermatological therapy.	3	9	5
2. Write about the mechanism of action, indications and side effects of Ivermectin.	3	9	5
VI. MICROBIOLOGY			
1. Describe the structure of Mycobacterium leprae.	3	9	5
2. Write a note on cutaneous candidiasis.	3	9	5

SECTION B**VENEREOLOGY****I. ANATOMY**

- | | | | |
|---|---|---|---|
| 1. Draw and explain the structure of Tooth. | 3 | 9 | 5 |
| 2. Describe the histology of Prostate glands. | 3 | 9 | 5 |

II. PHYSIOLOGY

- | | | | |
|--|---|---|---|
| 1. What are Prostaglandins and mention their importance. | 3 | 9 | 5 |
|--|---|---|---|

(PTO)

2. Mention about Animal models in Sexually transmitted diseases. 3 9 5

III. BIO-CHEMISTRY

1. What is the role of IgG & IgM in Sexually transmitted diseases? 3 9 5

IV. PATHOLOGY

1. Discuss the significance of Cervical cytology. 3 9 5

V. PHARMACOLOGY

1. Describe the mechanism of action, uses and side effects of Metronidazole. 3 9 5

VI. MICROBIOLOGY.

1. Write about p24 Antigen assay. 3 9 5

**M.D. DEGREE EXAMINATION
BRANCH XX – DERMATOLOGY, VENEREOLOGY AND LEPROSY
APPLIED BASIC SCIENCES
Q.P. Code : 202093**

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

**Answer ALL questions in the same order.
Write Section A and Section B Separately.**

**SECTION A
DERMATOLOGY AND LEPROSY**

Write notes on	Pages (Max.)	Time (Max.)	Marks (Max.)
I. ANATOMY			
1. Write about applied anatomy of Epidermal melanin unit	3	9	5
2. Write a note on anatomy of Muscles of the skin.	3	9	5
II. PHYSIOLOGY			
1. Write about Types of sweating and their importance.	3	9	5
2. Describe Merowsky phenomenon.	3	9	5
III. BIO-CHEMISTRY			
1. Skin an endocrine target-explain.	3	9	5
2. Write about the actions of Serotonin in realtion to skin.	3	9	5
IV. PATHOLOGY			
1. Write about Histopathology of various types of leprosy.	3	9	5
2. Define Psuedo epitheliomatous hyper plasia. Mention the conditions associated with it .	3	9	5
V. PHARMACOLOGY			
1. Write about non anti-histamine therapy of urticaria	3	9	5
2. Mention the side effects of topical steroids	3	9	5
VI. MICROBIOLOGY			
1. Explain about immunology of leprosy.	3	9	5
2. Write short notes on lab diagnosis of fungal infections.	3	9	5

**SECTION B
VENEREOLOGY**

I. ANATOMY			
1. Draw and describe the Lymphatic drainage of female genitalia.	3	9	5
2. Write about Tyson's glands.	3	9	5
II. PHYSIOLOGY			
1. Explain with diagram the Pathway of Accomodation reflex.	3	9	5
2. Write about Cytokines.	3	9	5
III. BIO-CHEMISTRY			
1. Describe Colloidal gold curve and its significance.	3	9	5
IV. PATHOLOGY			
1. Explain the role of Papanicolaou stain in Sexually transmitted disease.	3	9	5

V. PHARMACOLOGY

- | | | | |
|--|---|---|---|
| 1. What is Podophyllin? Explain the mechanism of action, mode of application, uses and adverse effects of Podophyllin. | 3 | 9 | 5 |
|--|---|---|---|

VI. MICROBIOLOGY.

- | | | | |
|---|---|---|---|
| 1. Describe about the culture medium for trichomonas vaginalis. | 3 | 9 | 5 |
|---|---|---|---|

(LC 2093)

APRIL 2013

Sub. Code: 2093

M.D. DEGREE EXAMINATION

**BRANCH XX – DERMATOLOGY, VENEREOLOGY AND LEPROSY
APPLIED BASIC SCIENCES**

Q.P.Code: 202093

Time: Three Hours

Maximum: 100 marks

SECTION – A

DERMATOLOGY AND LEPROSY

Write notes on:

I. ANATOMY (2X5=10)

1. Structure and functions of eccrine gland.
2. Ultra structure of Langerhan cell and its functions

II. PHYSIOLOGY (2X5=10)

1. Discuss on function and contents of sebum.
2. Physiology and applied aspects of percutaneous absorption.

III. BIO-CHEMISTRY (2X5=10)

1. Biochemical changes in alkaptanuria.
2. Biochemical tests in porphyria cutanea tarda.

IV. PHARMACOLOGY (2X5=10)

1. Discuss the types of sunscreens and add a note on sun protection factor
2. D-penicillamine in dermatology

V. MICROBIOLOGY (2X5=10)

1. Role of streptococcus in dermatology.
2. Organisms causing bacillary angiomatosis and clinical features.

VI. PATHOLOGY (2X5=10)

1. Dermatological entities with civatte bodies.
2. Define acantholysis and enumerate the conditions with acantholysis.

SECTION B

VENEREOLOGY

I. ANATOMY (2X5=10)

1. Explain with diagram the histology of vagina.
2. Describe Cowper's glands.

II. PHYSIOLOGY (2X5=10)

1. Write about composition and importance of Cerebrospinal fluid.
2. Describe the physiology of Micturition.

III. BIO-CHEMISTRY (1X5=5)

1. Explain in detail the importance of urine examination in sexually transmitted diseases.

IV. PHARMACOLOGY (1X5=5)

1. Write about the mechanisms of action, indications of Foscarnet.

V. MICROBIOLOGY (1X5=5)

1. What is Oxidase test? Write its importance.

VI. PATHOLOGY (1X5=5)

1. What are Koilocytes? Explain with diagram.

[LD 2093]

OCTOBER 2013

Sub. Code: 2093

(LD 2093) OCTOBER 2013 Sub. Code: 2093

M.D. DEGREE EXAMINATION

BRANCH XX – DERMATOLOGY, VENEREOLOGY AND LEPROSY

APPLIED BASIC SCIENCES

Q.P.Code: 202093

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. Langerhan cells-structure and functions.
2. Weibel Palade bodies.

II. PHYSIOLOGY (2 x 5 = 10)

1. Functions of Merkel cells.
2. Functions of Glomus body.

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

1. Sweat composition.
2. Antimicrobial Peptides.

IV. PHARMACOLOGY (2 x 5 = 10)

1. Etanercept.
2. Clofazamine.

V. MICROBIOLOGY (2 x 5 = 10)

1. Mycobacterium leprae – structure.
2. Borrelia and skin.

VI. PATHOLOGY (2 x 5 = 10)

1. Different types of Biopsy and its indications.
2. Acantholysis-definition and types.

SECTION B

VENEREOLOGY

I. ANATOMY (2 x 5 = 10)

1. Bartholin glands anatomy and histology.
2. Pearly Penile Papules and its differential diagnosis.

II. PHYSIOLOGY (2 x 5 = 10)

1. Physiological Vaginal discharge.
2. Physiological Urethral discharge.

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

1. Cerebrospinal fluid changes in syphilis.

IV. PHARMACOLOGY (1x 5 = 5)

1. Anti Retroviral Therapy.

V. MICROBIOLOGY (1x 5 = 5)

1. Structure of HIV.

VI. PATHOLOGY (1x 5 = 5)

1. Histopathology of condyloma acuminata.

(LE 2093)

APRIL 2014

Sub. Code:2093

**M.D. DEGREE EXAMINATION
BRANCH XX – DERMATOLOGY, VENEREOLOGY AND LEPROSY
APPLIED BASIC SCIENCES
Q.P.Code: 202093**

Time: Three Hours

Maximum: 100 marks

(ANSWER SECTION A & B SEPARATELY)

**SECTION – A
DERMATOLOGY AND LEPROSY**

Write notes on:

I. ANATOMY: (2X5=10)

1. Dermoepidermal junction
2. Sweat glands.

II. PHYSIOLOGY: (2X5=10)

1. Epidermal cell kinetics.
2. Melanocytes.

III. BIO-CHEMISTRY: (2X5=10)

1. Adhesion molecules.
2. Toll like receptors.

IV. PHARMACOLOGY: (2X5=10)

1. Topical Corticosteroids.
2. Azathioprine

V. MICROBIOLOGY: (2X5=10)

1. Pediculosis capitis.
2. Herpes virus classification.

VI. PATHOLOGY: (2X5=10)

1. Direct and Indirect Immunofluorescence.
2. Histopathology of Psoriasis

SECTION B – VENEREOLOGY

I. ANATOMY: (2X5=10)

1. Littres glands anatomy and function
2. Nabothian follicle and its significance.

II. PHYSIOLOGY: (2X5=10)

1. Argyll Robertsons pupil.
2. Testes and its functions.

III. BIO-CHEMISTRY: (2X5=10)

1. Nugents score.

IV. PHARMACOLOGY: (1X5=5)

1. Imiquimod.

V. MICROBIOLOGY: (1X5=5)

1. Difference between HIV 1 & HIV 2

VI. PATHOLOGY: (1X5=5)

1. Draw Greenblat & Pund cell and describe its significance.

M.D. DEGREE EXAMINATION
BRANCH XX – DERMATOLOGY, VENEREOLOGY AND LEPROSY
PAPER I – APPLIED BASIC SCIENCES
Q.P.Code: 202093

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. Sensory supply of the hand.
2. Merkel cells.

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

1. Barrier functions of skin.
2. Skin changes in pregnancy.

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

1. Melanin synthesis.
2. Hemochromatosis.

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

1. Ivermectin.
2. Dapsone.

V. MICROBIOLOGY **(2 x 5 = 10)**

1. Mycobacterium marinum infection.
2. Bacterial and Morphological indices.

VI. PATHOLOGY **(2 x 5 = 10)**

1. Acquired perforating dermatosis.
2. Differential diagnosis of a tuberculoid granuloma.

SECTION B
VENEREOLOGY

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

1. Lymphatic drainage of the testes.
2. Cervix in sexually transmitted infections.

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

1. Mechanism of lymphopenia in HIV infection.
2. Factors affecting the vaginal flora.

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

1. Amine test in bacterial vaginosis.

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

1. Vaginal microbicides.

V. MICROBIOLOGY **(1x 5 = 5)**

1. Trichomonas vaginalis.

VI. PATHOLOGY **(1x 5 = 5)**

1. Kaposi sarcoma.

M.D. DEGREE EXAMINATION
BRANCH XX – DERMATOLOGY, VENEREOLOGY AND LEPROSY
PAPER I – APPLIED BASIC SCIENCES
Q.P. Code: 202093

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. The nail apparatus
2. Epidermal layers of skin.

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

1. Functions of skin.
2. Thermoregulation.

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

1. Matrix metalloproteinases.
2. Desmosomes.

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

1. Fluconazole.
2. Intravenous Immunoglobulin

V. MICROBIOLOGY**(2 x 5 = 10)**

1. House dust mite.
2. Polymerase chain reaction.

VI. PATHOLOGY**(2 x 5 = 10)**

1. Histopathology of lichen planus.
2. Dyskeratosis.

SECTION B – VENEREOLOGY

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

1. Prostate glands.
2. Fallopian tubes.

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

1. Seminal fluid.
2. Accommodation reflex.

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

1. Vaginal pH.

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

1. Metronidazole.

V. MICROBIOLOGY**(1x 5 = 5)**

1. ELISA.

VI. PATHOLOGY**(1x 5 = 5)**

1. Histopathology of gumma.

(LI 2093)

APRIL 2016

Sub. Code:2093

**M.D. DEGREE EXAMINATION
BRANCH XX – DERMATOLOGY, VENEREOLOGY AND LEPROSY
PAPER I – APPLIED BASIC SCIENCES**

Q.P.Code: 202093

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. Langerhan's cells.
2. Structure of hair.
- II. PHYSIOLOGY:** (2 x 5 = 10)
1. Skin failure.
2. Epidermal Cornification.
- III. BIO-CHEMISTRY:** (2 x 5 = 10)
1. Antimicrobial peptides.
2. Ochronosis.
- IV. PHARMACOLOGY:** (2 x 5 = 10)
1. Linezolid.
2. Rituximab.
- V. MICROBIOLOGY:** (2 x 5 = 10)
1. Biofilms in dermatology.
2. Methicillin - resistant Staphylococcus aureus (MRSA).
- VI. PATHOLOGY:** (2 x 5 = 10)
1. Basal cell carcinoma.
2. Epidermolytic hyperkeratosis.

SECTION B – VENEREOLOGY

- I. ANATOMY:** (2 x 5 = 10)
1. Vagina.
2. Inguinal Lymph nodes.
- II. PHYSIOLOGY:** (2 x 5 = 10)
1. Prostatic fluid.
2. Herpes simplex virus latency.
- III. BIO-CHEMISTRY:** (1 x 5 = 5)
1. CSF in neurosyphilis.
- IV. PHARMACOLOGY:** (1 x 5 = 5)
1. HIV Fusion inhibitors.
- V. MICROBIOLOGY:** (1 x 5 = 5)
1. Antibiotic resistance in gonorrhea.
- VI. PATHOLOGY:** (1 x 5 = 5)
1. Histopathology of Chancroid.

**M.D. DEGREE EXAMINATION
BRANCH XX – DERMATOLOGY, VENEREOLOGY AND LEPROSY
PAPER I – APPLIED BASIC SCIENCES**

Q.P.Code: 202093

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. Dermoepidermal junction.
2. Melanocyte.
- II. PHYSIOLOGY:** (2 x 5 = 10)
1. Normal neonatal skin.
2. Physiology of wound healing.
- III. BIO-CHEMISTRY:** (2 x 5 = 10)
1. Porphyrin metabolism.
2. Composition of Sebum.
- IV. PHARMACOLOGY:** (2 x 5 = 10)
1. Thalidomide.
2. Rifampicin.
- V. MICROBIOLOGY:** (2 x 5 = 10)
1. Sabourauds Dextrose agar.
2. Anthrax.
- VI. PATHOLOGY:** (2 x 5 = 10)
1. Borst Jadassohn phenomenon.
2. Cornoid Lamellae.

SECTION B – VENEREOLOGY

- I. ANATOMY:** (2 x 5 = 10)
1. Bartholin's gland.
2. Normal vaginal flora.
- II. PHYSIOLOGY:** (2 x 5 = 10)
1. Mother to child transmission of HIV.
2. Erection.
- III. BIO-CHEMISTRY:** (1 x 5 = 5)
1. Nucleic acid amplification tests in STD.
- IV. PHARMACOLOGY:** (1 x 5 = 5)
1. Treatment of congenital syphilis.
- V. MICROBIOLOGY:** (1 x 5 = 5)
1. Western Blot test.
- VI. PATHOLOGY:** (1 x 5 = 5)
1. Granuloma inguinale.

(LK 2093)

MAY 2017

Sub. Code:2093

M.D. DEGREE EXAMINATION
BRANCH XX – DERMATOLOGY, VENEREOLOGY AND LEPROSY
PAPER I – APPLIED BASIC SCIENCES

Q.P.Code: 202093

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. The Nail apparatus.
2. Desmogleins.

II. PHYSIOLOGY:

(2 x 5 = 10)

1. Cutaneous innervations.
2. Skin failure.

III.BIO-CHEMISTRY:

(2 x 5 = 10)

1. Pellagra.
2. Acrodermatitis enteropathica.

IV. PHARMACOLOGY:

(2 x 5 = 10)

1. Topical treatment of psoriasis.
2. Intravenous immunoglobulin.

V. MICROBIOLOGY:

(2 x 5 = 10)

1. Candidiasis.
2. Antinuclear antibodies.

VI. PATHOLOGY:

(2 x 5 = 10)

1. Sarcoidal granuloma.
2. Bowen's disease.

SECTION B – VENEREOLOGY

I. ANATOMY:

(2 x 5 = 10)

1. Male circumcision and role in sexually transmitted infections.
2. Lymphatic drainage of the male genitalia.

II. PHYSIOLOGY:

(2 x 5 = 10)

1. Composition of prostatic fluid.
2. Bladder dysfunction in neurosyphilis.

III.BIO-CHEMISTRY:

(1 x 5 = 5)

1. Auxotyping of *Neisseria gonorrhoeae*.

IV. PHARMACOLOGY:

(1 x 5 = 5)

1. Aciclovir.

V. MICROBIOLOGY:

(1 x 5 = 5)

1. *Treponema Pallidum*.

VI. PATHOLOGY:

(1 x 5 = 5)

1. Gumma.

(LL 2093)

OCTOBER 2017

Sub. Code: 2093

**M.D. DEGREE EXAMINATION
BRANCH XX – DERMATOLOGY, VENEREOLOGY AND LEPROSY
PAPER I – APPLIED BASIC SCIENCES**

Q.P.Code: 202093

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. Muscles of skin.
2. Special nerve end organs of skin.
- II. PHYSIOLOGY:** (2 x 5 = 10)
1. Trans epidermal water loss.
2. Hair growth cycle.
- III. BIO-CHEMISTRY:** (2 x 5 = 10)
1. Vascular Endothelial Growth Factor.
2. Ig A and skin.
- IV. PHARMACOLOGY:** (2 x 5 = 10)
1. Methotrexate.
2. Penetration enhancers.
- V. MICROBIOLOGY:** (2 x 5 = 10)
1. *Sporothrix schenckii*.
2. Normal flora of skin.
- VI. PATHOLOGY:** (2 x 5 = 10)
1. Grenz zone.
2. Colloid bodies.

SECTION B – VENEREOLOGY

- I. ANATOMY:** (2 x 5 = 10)
1. Bulbo- urethral glands.
2. Hymen.
- II. PHYSIOLOGY:** (2 x 5 = 10)
1. Orgasm.
2. Physiology of micturition.
- III. BIO-CHEMISTRY:** (1 x 5 = 5)
1. False positive VDRL.
- IV. PHARMACOLOGY:** (1 x 5 = 5)
1. Sildenafil citrate.
- V. MICROBIOLOGY:** (1 x 5 = 5)
1. Methods of collection of lab specimens in a male with suspected STI.
- VI. PATHOLOGY:** (1 x 5 = 5)
1. Histopathology of secondary syphilis.

(LM 2093)

MAY 2018

Sub. Code: 2093

**M.D. DEGREE EXAMINATION
BRANCH XX – DERMATOLOGY, VENEREOLOGY AND LEPROSY
PAPER I – APPLIED BASIC SCIENCES**

Q.P.Code: 202093

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. Apocrine glands.
2. Hair follicle.
- II. PHYSIOLOGY:** (2 x 5 = 10)
1. Itch pathway.
2. Chemokines.
- III. BIO-CHEMISTRY:** (2 x 5 = 10)
1. Eccrine sweat.
2. Melanogenesis.
- IV. PHARMACOLOGY:** (2 x 5 = 10)
1. Griseofulvin.
2. Tachyphylaxis.
- V. MICROBIOLOGY:** (2 x 5 = 10)
1. Normal skin flora.
2. Steps of slit skin smear in leprosy.
- VI. PATHOLOGY:** (2 x 5 = 10)
1. Special stains in dermatology.
2. Giant cells.

SECTION B – VENEREOLOGY

- I. ANATOMY:** (2 x 5 = 10)
1. Structure of male urethra.
2. Seminal vesicle.
- II. PHYSIOLOGY:** (2 x 5 = 10)
1. Physiology of erection.
2. Micturition reflex.
- III. BIO-CHEMISTRY:** (1 x 5 = 5)
1. Prostatic fluid.
- IV. PHARMACOLOGY:** (1 x 5 = 5)
1. Podophyllin.
- V. MICROBIOLOGY:** (1 x 5 = 5)
1. Structure of Trichomonas vaginalis.
- VI. PATHOLOGY:** (1 x 5 = 5)
1. Histopathology of chancroid.

(LN 2093)

OCTOBER 2018

Sub. Code: 2093

M.D. DEGREE EXAMINATION
BRANCH XX – DERMATOLOGY, VENEREOLOGY AND LEPROSY
PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 202093

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. Blood supply of dermis.
- II. PHYSIOLOGY:** (2 x 5 = 10)
1. Odland bodies.
2. Percutaneous absorption.
- III. BIO-CHEMISTRY:** (2 x 5 = 10)
1. Sebum.
2. Keratin.
- IV. PHARMACOLOGY:** (2 x 5 = 10)
1. Amphotericin B.
2. Topical antibiotics.
- V. MICROBIOLOGY:** (2 x 5 = 10)
1. Corynebacterium.
2. Piedra.
- VI. PATHOLOGY:** (2 x 5 = 10)
1. Types of degeneration.
2. Colloid bodies.

SECTION B – VENEREOLOGY

- I. ANATOMY:** (2 x 5 = 10)
1. Paraurethral glands.
2. Spermatic cord.
- II. PHYSIOLOGY:** (2 x 5 = 10)
1. Prostatic fluid.
2. Stages of sex.
- III. BIO-CHEMISTRY:** (1 x 5 = 5)
1. Amsels criteria.
- IV. PHARMACOLOGY:** (1 x 5 = 5)
1. Benzathine Penicillin.
- V. MICROBIOLOGY:** (1 x 5 = 5)
1. Structure of Neisseria gonorrhoeae.
- VI. PATHOLOGY:** (1 x 5 = 5)
1. Histopathology of Molluscum contagiosum.

(LO 2093)

MAY 2019

Sub. Code: 2093

**M.D. DEGREE EXAMINATION
BRANCH XX – DERMATOLOGY, VENEREOLOGY AND LEPROSY
PAPER I – APPLIED BASIC SCIENCES**

Q.P. Code: 202093

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. Distribution of various types of collagen in skin.
2. Desmosome -tonofilament complex.

II. PHYSIOLOGY:

(2 x 5 = 10)

1. Stem cells of skin.
2. Innervation and neurotransmitters of eccrine sweat glands.

III. BIO-CHEMISTRY:

(2 x 5 = 10)

1. Mediators of pruritus.
2. Mediators of Mast cell.

IV. PHARMACOLOGY:

(2 x 5 = 10)

1. Emulsions in dermatology.
2. Clofazimine.

V. MICROBIOLOGY:

(2 x 5 = 10)

1. Acid fast bacilli and skin.
2. Demodex folliculorum.

VI. PATHOLOGY:

(2 x 5 = 10)

1. Various dermal deposits.
2. Pseudo epitheliomatous hyperplasia.

SECTION B – VENEREOLOGY

I. ANATOMY:

(2 x 5 = 10)

1. Optic tract.
2. Lymphatic drainage of penis.

II. PHYSIOLOGY:

(2 x 5 = 10)

1. Physiology of ejaculation.
2. Breast feeding and STIs.

III. BIO-CHEMISTRY:

(1 x 5 = 5)

1. Prostaglandins.

IV. PHARMACOLOGY:

(1 x 5 = 5)

1. Trichloroacetic acid.

V. MICROBIOLOGY:

(1 x 5 = 5)

1. Culture media for Gonococci.

VI. PATHOLOGY:

(1 x 5 = 5)

1. Cytodiagnosis of STIs.

M.D. DEGREE EXAMINATION
BRANCH XX – DERMATOLOGY, VENEREOLOGY AND LEPROSY
PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 202093

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. Langerhans cell.
2. Lamina Lucida.
- II. PHYSIOLOGY:** (2 x 5 = 10)
1. Types of keratin and their importance.
2. Barrier function of the epidermis.
- III. BIO-CHEMISTRY:** (2 x 5 = 10)
1. Tryptophan metabolism.
2. Porphyrin synthesis.
- IV. PHARMACOLOGY:** (2 x 5 = 10)
1. Dapsone.
2. Rituximab.
- V. MICROBIOLOGY:** (2 x 5 = 10)
1. Bacteriological index.
2. Endothrix.
- VI. PATHOLOGY:** (2 x 5 = 10)
1. Dyskeratosis.
2. Histopathology of Histoid Hansens with diagram.

SECTION B – VENEREOLOGY

- I. ANATOMY:** (2 x 5 = 10)
1. Prostate.
2. Lymphatic drainage of female genitalia.
- II. PHYSIOLOGY:** (2 x 5 = 10)
1. Seminal fluid.
2. Innervations of the urinary bladder.
- III. BIO-CHEMISTRY:** (1 x 5 = 5)
1. Enzymes in Human Immunodeficiency Virus.
- IV. PHARMACOLOGY:** (1 x 5 = 5)
1. Imiquimode.
- V. MICROBIOLOGY:** (1 x 5 = 5)
1. Structure of Human Immunodeficiency Virus.
- VI. PATHOLOGY:** (1 x 5 = 5)
1. Condyloma accuminatum.

[LQ 2093]

AUGUST 2020

Sub. Code: 2093

(MAY 2020 SESSION)

M.D. DEGREE EXAMINATION

BRANCH XX – DERMATOLOGY, VENEREOLOGY AND LEPROSY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 202093

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. Nail apparatus.
2. Draw a neat diagram of basement membrane zone and label its parts.
- II. PHYSIOLOGY:** (2 x 5 = 10)
1. Physiological changes seen in a full term neonate.
2. Transepidermal water loss.
- III. BIO-CHEMISTRY:** (2 x 5 = 10)
1. Dystrophic calcification.
2. Cryoglobulins.
- IV. PHARMACOLOGY:** (2 x 5 = 10)
1. Tacrolimus.
2. Vancomycin.
- V. MICROBIOLOGY:** (2 x 5 = 10)
1. Normal flora of skin.
2. Grains in mycetoma.
- VI. PATHOLOGY:** (2 x 5 = 10)
1. Splendore Hoeppli phenomenon.
2. Necrobiotic granulomas.

SECTION B – VENEREOLOGY

- I. ANATOMY:** (2 x 5 = 10)
1. Bartholin's gland.
2. Epididymis.
- II. PHYSIOLOGY:** (2 x 5 = 10)
1. Erection.
2. Normal vaginal flora.
- III. BIO-CHEMISTRY:** (1 x 5 = 5)
1. Toluidine red unheated serum test.
- IV. PHARMACOLOGY:** (1 x 5 = 5)
1. Role of azithromycin in sexually transmitted infection.
- V. MICROBIOLOGY:** (1 x 5 = 5)
1. Laboratory diagnosis of trichomonas vaginalis.
- VI. PATHOLOGY:** (1 x 5 = 5)
1. Bowenoid papulosis.

[MD 0721]

JULY 2021

Sub. Code: 2093

(MAY 2021 SESSION)

M.D. DEGREE EXAMINATION

BRANCH XX – DERMATOLOGY, VENEREOLOGY AND LEPROSY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 202093

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. Pilosebaceous unit.
2. Melanocytes.
- II. PHYSIOLOGY:** (2 x 5 = 10)
1. Thermoregulation
2. Skin ageing
- III. BIO-CHEMISTRY:** (2 x 5 = 10)
1. Composition of sweat.
2. Biotin metabolism.
- IV. PHARMACOLOGY:** (2 x 5 = 10)
1. Rifampicin.
2. Azathioprin.
- V. MICROBIOLOGY:** (2 x 5 = 10)
1. Herpes viruses.
2. Malassezia
- VI. PATHOLOGY:** (2 x 5 = 10)
1. Slit skin smear.
2. Histopathology of Psoriasis.

SECTION B – VENEREOLOGY

- I. ANATOMY:** (2 x 5 = 10)
1. Male urethra.
2. Bartholin glands.
- II. PHYSIOLOGY:** (2 x 5 = 10)
1. Cervical mucus.
2. Cytokines.
- III. BIO-CHEMISTRY:** (1 x 5 = 5)
1. Ig G & Ig M in STD.
- IV. PHARMACOLOGY:** (1 x 5 = 5)
1. Podophyllin.
- V. MICROBIOLOGY:** (1 x 5 = 5)
1. Trichomonas vaginalis.
- VI. PATHOLOGY:** (1 x 5 = 5)
1. Histopathology of Chancroid.

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

[MD 0522]

MAY 2022

Sub. Code: 2093

M.D. DEGREE EXAMINATION

BRANCH XX – DERMATOLOGY, VENEREOLOGY AND LEPROSY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 202093

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. Draw and describe the anatomy and structure of the human nail.
2. Sebaceous gland.

II. PHYSIOLOGY: (2 x 5 = 10)

1. Cutaneous sensory receptors.
2. Hair cycle.

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

1. Extracellular matrix.
2. Filaggrin.

IV. PHARMACOLOGY: (2 x 5 = 10)

1. Classify Topical corticosteroids.
2. Penetration enhancers.

V. MICROBIOLOGY: (2 x 5 = 10)

1. Dematiaceous fungi.
2. Biofilm.

VI. PATHOLOGY: (2 x 5 = 10)

1. Pseudoepitheliomatous hyperplasia.
2. Dyskeratosis.

SECTION B – VENEREOLOGY

I. ANATOMY: (2 x 5 = 10)

1. Tracts of spinal cord.
2. Bartholin's gland.

II. PHYSIOLOGY: (2 x 5 = 10)

1. Physiology of erection.
2. G Spot.

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

1. Prostatic massage.

IV. PHARMACOLOGY: (1 x 5 = 5)

1. Podophyllotoxin.

V. MICROBIOLOGY: (1 x 5 = 5)

1. Inpouch culture of Trichomonas vaginalis.

VI. PATHOLOGY: (1 x 5 = 5)

1. Histopathology of primary chancre.

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

[MD 1022]

OCTOBER 2022

Sub. Code: 2093

M.D. DEGREE EXAMINATION

BRANCH XX – DERMATOLOGY, VENEREOLOGY AND LEPROSY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 202093

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. Langerhans cells.

II. PHYSIOLOGY: (2 x 5 = 10)

1. Melanogenesis.
2. Glomus cells.

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

1. Biosynthesis of collagen.
2. Laboratory testing in Porphyria.

IV. PHARMACOLOGY: (2 x 5 = 10)

1. Skin barrier function.
2. Mycophenolate Mofetil.

V. MICROBIOLOGY: (2 x 5 = 10)

1. Milkere's nodule.
2. Cellular morphology of Mycobacterium leprae

VI. PATHOLOGY: (2 x 5 = 10)

1. Asteroid bodies
2. Mikulicz cells

SECTION – B
VENEREOLOGY

I. ANATOMY: (2 x 5 = 10)

1. Lymphatic drainage of female genitalia
2. Ovaries

II. PHYSIOLOGY: (2 x 5 = 10)

1. Physiological vaginal discharge
2. Semen analysis

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

1. Vaginal Ph

IV. PHARMACOLOGY: (1 x 5 = 5)

1. Fusion inhibitor

V. MICROBIOLOGY: (1 x 5 = 5)

1. Culture for gonococcus

VI. PATHOLOGY: (1 x 5 = 5)

1. Malignant syphilis.

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

[MD 0723]

JULY 2023

Sub. Code: 2093

(MAY 2023 EXAM SESSION)

M.D. DEGREE EXAMINATION

BRANCH XX – DERMATOLOGY, VENEREOLOGY AND LEPROSY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 202093

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. Epidermal Melanin Unit.
2. Eccrine sweat glands.

II. PHYSIOLOGY: (2 x 5 = 10)

1. Keratinisation of skin.
2. Itch pathway.

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

1. Lipids of stratum corneum.
2. Porphyrin metabolism.

IV. PHARMACOLOGY: (2 x 5 = 10)

1. Wet wrap therapy.
2. Potassium permanganate in dermatology.

V. PATHOLOGY: (2 x 5 = 10)

1. Splendore – Hoeppli phenomenon.
2. Flame figures.

VI. MICROBIOLOGY: (2 x 5 = 10)

1. Normal cutaneous microbiome.
2. Demodex mite.

SECTION B – VENEREOLOGY

I. ANATOMY: (2 x 5 = 10)

1. Male urethra.
2. Seminal vesicles and its applied anatomy.

II. PHYSIOLOGY: (2 x 5 = 10)

1. Innervation of urinary bladder.
2. Accommodation reflex.

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

1. Biochemical test for Neisseria Gonorrhoea.

IV. PHARMACOLOGY: (1 x 5 = 5)

1. Sinecatechins.

V. PATHOLOGY: (1 x 5 = 5)

1. Endarteritis obliterans.

VI. MICROBIOLOGY: (1 x 5 = 5)

1. Nugent's score.

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

[MD 1223]

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

Sub. Code: 2093

M.D. DEGREE EXAMINATION

**BRANCH XX – DERMATOLOGY, VENEREOLOGY AND LEPROSY
PAPER I – APPLIED BASIC SCIENCES**

Q.P. Code: 202093

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. Dermo Epidermal Junction.
2. Merkel cells.

II. PHYSIOLOGY: (2 x 5 = 10)

1. Barrier function of Skin
2. Skin changes in pregnancy.

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

1. Melanin synthesis.
2. Hemochromatosis.

IV. PHARMACOLOGY: (2 x 5 = 10)

1. Ivermectin.
2. Dapsone

V. PATHOLOGY: (2 x 5 = 10)

1. Acquired perforating dermatosis.
2. Differential diagnosis of a tuberculoid Granuloma.

VI. MICROBIOLOGY: (2 x 5 = 10)

1. Mycobacterium marinum infection.
2. Bacterial and Morphological indices.

SECTION B – VENEREOLOGY

I. ANATOMY: (2 x 5 = 10)

1. Phimosis.
2. Anatomy and Histology of Vagina

II. PHYSIOLOGY: (2 x 5 = 10)

1. CSF examination in STD.
2. Physiological Urethral discharge.

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

1. TRUST (Toluidine Red Unheated Serum Test)

IV. PHARMACOLOGY: (1 x 5 = 5)

1. Procaine penicillin.

V. PATHOLOGY: (1 x 5 = 5)

1. Histopathology of Gumma.

VI. MICROBIOLOGY: (1 x 5 = 5)

1. Gonococcal culture.
