

[KQ 145]

Sub. Code : 2110

M.D. DEGREE EXAMINATION.

Branch XII A — DERMATOLOGY, VENEREOLOGY
AND LEPROSY

Candidates admitted from 2004-05 onwards

APPLIED BASIC SCIENCES IN DERMATOLOGY,
VENEREOLOGY AND LEPROSY

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 60 marks
twenty minutes

M.C.Q. : Forty minutes M.C.Q. : 40 marks

Answer any TWO questions in each subject

Draw suitable diagram wherever necessary.

(ANATOMY)

(2 × 5 = 10)

- (1) Embryology and anatomy of hair follicle
- (2) Non keratinocytes of the epidermis
- (3) Lymphatic drainage of male genitalia.

(PHYSIOLOGY)

(2 × 5 = 10)

- (4) Thermoregulation of the human body
- (5) Function of mast cell
- (6) Physiology of micturition.

(PATHOLOGY)

(2 × 5 = 10)

- Psoriasis
- (7) Cell systems involved in pathogenesis of
 - (8) Histopathology of Porokeratosis
 - (9) Pathogenesis of Aortic aneurysm.

(MICROBIOLOGY)

(2 × 5 = 10)

- (10) Langerhans cells and immune system
- (11) Normal skin flora
- (12) Haemophilus ducreyi.

(PHARMACOLOGY)

(2 × 5 = 10)

- (13) Retinoids in Psoriasis
- (14) Methotrexate
- (15) Imiquimod.

(BIOCHEMISTRY)

(2 × 5 = 10)

- (16) Composition of Human Eccrine sweat
- (17) Protective biochemical mechanism of the epidermis
- (18) Prostatic fluid.

September-2007

[KR 159]

Sub. Code : 2055

M.D. DEGREE EXAMINATION.

**Branch XII A — DERMATOLOGY, VENEREOLOGY
AND LEPROSY**

Paper — I

Candidates admitted from 2004–05 onwards

**APPLIED BASIC SCIENCES IN DERMATOLOGY,
VENEREOLOGY AND LEPROSY**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
twenty minutes**

Theory : 60 marks

M.C.Q. : Forty minutes

M.C.Q. : 40 marks

Answer any TWO questions in each subject.

Draw suitable diagrams wherever necessary.

ANATOMY

(2 × 5 = 10)

- (1) Cutaneous microvasculature**
- (2) Mast cells of skin**
- (3) Collagen fibres of dermis.**

PHYSIOLOGY

(2 × 5 = 10)

- (1) Functions of macrophages
- (2) Cyclical phases of hair growth
- (3) Barrier functions of skin.

BIOCHEMISTRY

(2 × 5 = 10)

- (1) Biochemical mediators of inflammation
- (2) Keratin
- (3) Immunoglobulin G (IgG)

PHARMACOLOGY

(2 × 5 = 10)

- (1) HAART
- (2) Dapsone
- (3) Ivermectin.

MICROBIOLOGY

(2 × 5 = 10)

- (1) Classification of fungi
- (2) Type III hypersensitivity reaction
- (3) Herpes group of viruses.

PATHOLOGY

(2 × 5 = 10)

- (1) Pathogenesis of pemphigus vulgaris
 - (2) HP of lichen planus
 - (3) Giant cells.
-

M.D. DEGREE EXAMINATION

Branch XX – DERMATOLOGY, VENEREOLOGY AND LEPROSY
Part I – Paper I (Candidates admitted from 2004-05 to 2008-2009 onwards)

APPLIED BASIC SCIENCES IN DERMATOLOGY
VENEREOLOGY AND LEPROSY

Q.P. Code : 202080

Time : Three hours

Maximum : 100 marks

SECTION A – DERMATOLOGY AND LEPROSY

I. ANATOMY - Answer any TWO questions.

(12 x 5=60)

1. Structure of normal nerve.
2. Meissner corpuscles.
3. Hair follicle.

II. PHYSIOLOGY - Answer any TWO questions.

1. Pathophysiology of pruritus.
2. Formation of sebum.
3. Thermoregulation.

III. BIO-CHEMISTRY - Answer ALL TWO questions.

1. Biosynthesis of melanin.
2. Interleukins.

IV. PATHOLOGY - Answer ALL TWO questions.

1. Dyskeratosis.
2. Lepromin test.

V. PHARMACOLOGY - Answer ALL TWO questions.

1. Imiquimod.
2. Interferons in dermatology.

VI. MICROBIOLOGY - Answer ALL TWO questions.

1. Serodiagnosis of leprosy.
2. Wood's light examination.

SECTION B – VENEREOLOGY

I. ANATOMY - Answer ALL TWO questions.

(8 x 5=40)

1. Male urethral glands.
2. Bartholins glands.

II. PHYSIOLOGY - Answer ALL TWO questions.

1. Erectile dysfunction.
2. Testes and its functions.

III. BIO-CHEMISTRY - Answer any ONE question.

1. Prostatic fluid.
2. Fermentation reactions.

IV. PATHOLOGY - Answer any ONE question.

1. Histopathology of chancre.
2. Histopathology of chancroid.

V. PHARMACOLOGY - Answer any ONE question.

1. Acyclovir versus famciclovir.
2. Podophyllin.

VI. MICROBIOLOGY - Answer any ONE question.

1. Bubo aspiration.
2. Structure of HIV.

M.D. DEGREE EXAMINATION**Branch XX – DERMATOLOGY, VENEREOLOGY AND LEPROSY****Part I – Paper I (Candidates admitted from 2004-05 to 2008-2009 onwards)****APPLIED BASIC SCIENCES IN DERMATOLOGY****VENEREOLOGY AND LEPROSY****Q.P. Code : 202080****Time : Three hours****Maximum : 100 marks****Write Section A and Section B Separately.****SECTION A – DERMATOLOGY AND LEPROSY****I. ANATOMY - Answer any TWO questions.****(12 x 5=60)**

1. Dendritic cells of the epidermis
2. Keratinosomes
3. Dermoepidermal junction.

II. PHYSIOLOGY - Answer any TWO questions.

1. Percutaneous absorption
2. Functions of skin
3. Pathway of itch.

III. BIO-CHEMISTRY - Answer ALL TWO questions.

1. Keratin
2. Sebum

IV. PATHOLOGY - Answer ALL TWO questions.

1. Microabscesses
2. Tuberculoid granuloma

V. PHARMACOLOGY - Answer ALL TWO questions.

1. Tachyphylaxis
2. Calcineurin inhibitors

VI. MICROBIOLOGY - Answer ALL TWO questions.

1. Ultrastructure of *M. leprae*
2. Polymerase chain reaction.

SECTION B – VENEREOLOGY**I. ANATOMY - Answer ALL TWO questions.****(8 x 5=40)**

1. Prostate gland
2. Pearly penile papules.

II. PHYSIOLOGY - Answer ALL TWO questions.

1. Mucous
2. Physiological urethral discharge in males

III. BIO-CHEMISTRY - Answer any ONE question.

1. Vaginal PH
2. Prostatic fluid.

IV. PATHOLOGY - Answer any ONE question.

1. Pseudobubo
2. Histopathology of chancroid.ulcers.

V. PHARMACOLOGY - Answer any ONE question.

1. Drug resistance in gonorrhoea
2. Protease inhibitors.

VI. MICROBIOLOGY - Answer any ONE question.

1. Clue cells.
2. HIV virus.

September 2010

[KX 186]

Sub. Code: 2080

M.D. DEGREE EXAMINATION

Branch XX – Dermatology, Venereology and Leprosy

**APPLIED BASIC SCIENCES IN DERMATOLOGY, VENEREOLOGY AND
LEPROSY**

Paper I (for candidates admitted from 2004-05 to 2007-2008) and

Part I – (for candidates admitted from 2008-2009 onwards)

Q.P. Code : 202080

Time : Three hours

Maximum : 100 marks

Write Section A and Section B Separately.

Answer ALL Questions.

SECTION A

DERMATOLOGY AND LEPROSY

I. ANATOMY

(12 X 5=60)

1. Anatomy of hair follicle.
2. Structure of nerve.

II. PHYSIOLOGY

1. Melanin synthesis.
2. Functions of skin.

III. BIO-CHEMISTRY

1. Collagen.
2. Glucose Tolerance Test.

IV. PATHOLOGY

1. Giant cells.
2. Xeroderma Pigmentosum.

V. PHARMACOLOGY

1. Minoxidil.
2. Dapsone.

VI. MICROBIOLOGY

1. Yeast cells.
2. Structure of M.Leprae.

SECTION B

VENEREOLOGY

I. ANATOMY

(8 X 5=40)

1. Phimosis.
2. Lymphatic drainage of Male urethra.

II. PHYSIOLOGY

1. Seminal Fluid.
2. Normal vaginal flora.

III. BIO-CHEMISTRY

1. Liver function test.

IV. PATHOLOGY

1. Lymphogranuloma venereum.

V. PHARMACOLOGY

1. Benzathine Penicillin.

VI. MICROBIOLOGY.

1. Screening tests for HIV.

M.D. DEGREE EXAMINATION

BRANCH XX – DERMATOLOGY, VENEREOLOGY AND LEPROSY

APPLIED BASIC SCIENCES IN DERMATOLOGY, VENEREOLOGY AND LEPROSY

Q.P. Code : 202080

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.)
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I. ANATOMY

- | | | | |
|--|---|---|---|
| 1. Pigmentary demarcation lines. | 3 | 9 | 5 |
| 2. Expression patterns of keratin genes and diseases associated. | 3 | 9 | 5 |

II. PHYSIOLOGY

- | | | | |
|--|---|---|---|
| 1. Delayed type hypersensitivity testing in dermatology. | 3 | 9 | 5 |
| 2. Percutaneous absorption and delivery of drugs. | 3 | 9 | 5 |

III. BIO-CHEMISTRY

- | | | | |
|---|---|---|---|
| 1. Human skin response to Ultraviolet radiation | 3 | 9 | 5 |
| 2. Biochemical lab diagnosis of porphyria. | 3 | 9 | 5 |

IV. PATHOLOGY

- | | | | |
|--------------------------------------|---|---|---|
| 1. Pathology of tuberculoid leprosy. | 3 | 9 | 5 |
| 2. Acantholysis. | 3 | 9 | 5 |

V. PHARMACOLOGY

- | | | | |
|---------------------------------|---|---|---|
| 1. Gene therapy in dermatology. | 3 | 9 | 5 |
| 2. Thalidomide. | 3 | 9 | 5 |

VI. MICROBIOLOGY

- | | | | |
|--------------------------------|---|---|---|
| 1. Slit skin smear in leprosy. | 3 | 9 | 5 |
| 2. Corynebacteria. | 3 | 9 | 5 |

SECTION B – VENEREOLOGY

I. ANATOMY

- | | | | |
|---|---|---|---|
| 1. Female genital examination. | 3 | 9 | 5 |
| 2. Male circumcision and role in Sexually transmitted infections. | 3 | 9 | 5 |

II. PHYSIOLOGY

- | | | | |
|--|---|---|---|
| 1. Co receptors in HIV infection. | 3 | 9 | 5 |
| 2. Mechanisms of CD4 lymphocytopenia in HIV infection. | 3 | 9 | 5 |

III. BIO-CHEMISTRY

- | | | | |
|--|---|---|---|
| 1. Biochemical identification of Neisseria gonorrhoea. | 3 | 9 | 5 |
|--|---|---|---|

IV. PATHOLOGY

- | | | | |
|---|---|---|---|
| 1. Special stains in diagnosis of syphilis. | 3 | 9 | 5 |
|---|---|---|---|

V. PHARMACOLOGY

- | | | | |
|---|---|---|---|
| 1. Drug resistance in Neisseria Gonorrhoea. | 3 | 9 | 5 |
|---|---|---|---|

VI. MICROBIOLOGY.

- | | | | |
|--|---|---|---|
| 1. Lab diagnosis of Genital HSV infection. | 3 | 9 | 5 |
|--|---|---|---|

October 2011

[KZ 186]

Sub. Code: 2080

M.D. DEGREE EXAMINATION

BRANCH XX – DERMATOLOGY, VENEREOLOGY AND LEPROSY

APPLIED BASIC SCIENCES IN DERMATOLOGY, VENEREOLOGY AND LEPROSY

Q.P. Code : 202080

**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 Time Marks
(Max.) (Max.) (Max.)**

I. ANATOMY

1. Keratohyaline granules.
2. Dermo Epidermal Junction.

3	9	5
3	9	5

II. PHYSIOLOGY

1. Protective functions of skin.
2. Dermographism.

3	9	5
3	9	5

III. BIO-CHEMISTRY

1. Phenolic Glycolipid.
2. Ninhydrin test.

3	9	5
3	9	5

IV. PATHOLOGY

1. Histopathology of Histoid Hansen.
2. Tzanck Cell.

3	9	5
3	9	5

V. PHARMACOLOGY

1. Topical Vit.D analogue.
2. Hydroxy chloroquine.

3	9	5
3	9	5

VI. MICROBIOLOGY

1. Anthrax.
2. Cutaneous Larva migrans.

3	9	5
3	9	5

SECTION B - VENEREOLOGY

I. ANATOMY

1. Bartholins gland.
2. Histology of Prostate.

3	9	5
3	9	5

II. PHYSIOLOGY

1. Argyll Robertson Pupil.
2. Innervation of Urinary Bladder.

3	9	5
3	9	5

III. BIO-CHEMISTRY

1. Lab Investigations of Gonorrhea.

3	9	5
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IV. PATHOLOGY

1. Colposcopy.

3	9	5
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V. PHARMACOLOGY

1. Zidovudine.

3	9	5
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VI. MICROBIOLOGY.

1. TPHA.

3	9	5
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