

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.

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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.