

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

[MD 0524]

MAY 2024

Sub. Code: 4001

M.D. DEGREE EXAMINATION

BRANCH I – GENERAL MEDICINE

PAPER I – APPLIED BASIC SCIENCES IN GENERAL MEDICINE

Q.P. Code: 204001

Time : Three Hours

Maximum : 100 Marks

Write Notes on:

I. ANATOMY: (4 x 5 = 20)

1. Embryological basis of ventricular septal defect.
2. Portosystemic anastomosis.
3. Microscopic structure of kidney.
4. Nerve supply and actions of extraocular muscles.

II. PHYSIOLOGY: (4 x 5 = 20)

1. Neurotransmitters.
2. Carbondioxide transport in blood.
3. Enterohepatic circulation.
4. Cardiovascular adjustments during exercise.

III. BIO-CHEMISTRY: (3 x 5 = 15)

1. Regulation of blood glucose in fasting state.
2. Biomarkers of acute myocardial infarction.
3. Acute phase proteins.

IV. PHARMACOLOGY: (3 x 5 = 15)

1. Pharmacotherapy for pulmonary arterial hypertension.
2. Bisphosphonates.
3. Dipeptidyl Peptidase-4 inhibitors.

V. PATHOLOGY: (3 x 5 = 15)

1. Cellular aging.
2. Histopathology of inflammatory bowel disease.
3. Pathology of Bronchiectasis.

VI. MICROBIOLOGY: (3 x 5 = 15)

1. Catheter-associated urinary tract infections (CAUTI).
2. Immunology of graft rejection.
3. Non-typhoidal salmonellae.

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

[MD 1224]

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

Sub. Code: 4001

M.D. DEGREE EXAMINATION

GENERAL MEDICINE

PAPER I – BASIC MEDICAL SCIENCES

Q.P. Code: 204001

Time : Three Hours

Maximum : 100 Marks

Write Notes on:

I. ANATOMY: (4 x 5 = 20)

1. Bronchopulmonary segments.
2. Facial nerve-course and applied anatomy.
3. Nerve supply of the tongue.
4. Optic nerve.

II. PHYSIOLOGY: (4 x 5 = 20)

1. Erythropoietin.
2. Regulation and secretion of pituitary hormones.
3. Coagulation Cascade.
4. REM sleep.

III. BIO-CHEMISTRY: (3 x 5 = 15)

1. BNP.
2. Thyroid function Tests.
3. Ketone bodies.

IV. PHARMACOLOGY: (3 x 5 = 15)

1. Drug Therapy for XDR TB.
2. Drug eluting Stents.
3. Radioactive iodine.

V. PATHOLOGY: (3 x 5 = 15)

1. Renal manifestations of SLE.
2. NTBE (Non-Bacterial Thrombotic Endocarditis).
3. Aplastic anemia.

VI. MICROBIOLOGY: (3 x 5 = 15)

1. Hydatid cyst.
2. Serological tests in CSF.
3. ZIKA virus infection.

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

[MD 0525]

MAY 2025

Sub. Code: 4001

M.D. DEGREE EXAMINATION

GENERAL MEDICINE

PAPER I – BASIC MEDICAL SCIENCES

Q.P. Code: 204001

Time : Three Hours

Maximum : 100 Marks

Write Notes on:

I. ANATOMY: (4 x 5 = 20)

1. Development of Spleen.
2. Anatomy of Hypoglossal nerve.
3. Erb's palsy.
4. Anatomy of Pancreas.

II. PHYSIOLOGY: (4 x 5 = 20)

1. Factors affecting Peripheral Vascular Resistance.
2. Types of Hypoxia.
3. Functions of Thalamus.
4. Free Radicals.

III. BIO-CHEMISTRY: (3 x 5 = 15)

1. Adipokines.
2. Electrophoresis.
3. Carnitine.

IV. PHARMACOLOGY: (3 x 5 = 15)

1. Artemisinin therapy.
2. Levetiracetam.
3. Bempedoic Acid.

V. PATHOLOGY: (3 x 5 = 15)

1. Pathogenesis of Leprosy.
2. Pathology of multiple myeloma.
3. Pathology of Infarct.

VI. MICROBIOLOGY: (3 x 5 = 15)

1. HACEK Group of organism, Clinical manifestations, Diagnosis and Treatment.
2. Line Probe Assay.
3. Vibrio cholerae.

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

[MD 1025]

OCTOBER 2025

Sub. Code: 4001

M.D. DEGREE EXAMINATION

GENERAL MEDICINE

PAPER I – BASIC MEDICAL SCIENCES

Q.P. Code: 204001

Time : Three Hours

Maximum : 100 Marks

Write Notes on:

I. ANATOMY: (4 x 5 = 20)

1. Intrinsic muscles of hand.
2. Superior vena cava.
3. Internal capsule.
4. Development of thyroid gland.

II. PHYSIOLOGY: (4 x 5 = 20)

1. Muscles of inspiration.
2. Serotonergic system.
3. Mechanism of Decerebrate rigidity.
4. Physiological property of cardiac muscle.

III. BIO-CHEMISTRY: (3 x 5 = 15)

1. Mucopolysaccharides.
2. High density lipoprotein.
3. Creatinine clearance test.

IV. PHARMACOLOGY: (3 x 5 = 15)

1. Linezolid.
2. Levosimendan.
3. Febuxostat.

V. PATHOLOGY: (3 x 5 = 15)

1. Apoptosis.
2. Pathology of Chronic Viral Hepatitis.
3. Nephrosclerosis.

VI. MICROBIOLOGY: (3 x 5 = 15)

1. Flow cytometry.
2. Clostridium difficile.
3. Chlamydia pneumonia.
