

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

[MS 0524]

MAY 2024

Sub. Code: 4001

M.S. DEGREE EXAMINATION

BRANCH I – GENERAL SURGERY

PAPER I – BASIC SCIENCES

Q.P. Code: 224001

Time: Three Hours

Maximum: 100 Marks

Write notes on:

I. ANATOMY:

(4 x 5 = 20)

1. Mesentery.
2. Palmar spaces.
3. Retropharyngeal space.
4. Segments of Liver.

II. PHYSIOLOGY:

(4 x 5 = 20)

1. Gastrointestinal tract peristalsis.
2. Gall stones.
3. Iodine metabolism.
4. Cerebrospinal fluid.

III. BIO-CHEMISTRY:

(3 x 5 = 15)

1. Blood transfusion.
2. Hyponatremia.
3. Glucose tolerance test.

IV. PHARMACOLOGY:

(3 x 5 = 15)

1. Radiomimetic drugs.
2. Adriamycin.
3. Antibiotics for Surgical prophylaxis.

V. PATHOLOGY:

(3 x 5 = 15)

1. Carcinoma Grading and Staging.
2. Premalignant lesions of Oral Cavity.
3. Immunohistochemistry.

VI. MICROBIOLOGY:

(3 x 5 = 15)

1. Biomedical waste management.
2. Tumour antigen.
3. Hepatitis B.

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

[MS 1224]

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

Sub. Code: 4001

M.S. DEGREE EXAMINATION

GENERAL SURGERY

PAPER I – BASIC SCIENCES

Q.P. Code: 224001

Time: Three Hours

Maximum: 100 Marks

Write notes on:

I. ANATOMY: (4 x 5 = 20)

1. Parotid gland.
2. Blood supply and development of pancreas.
3. Circle of Willis.
4. Ischiorectal fossa.

II. PHYSIOLOGY: (4 x 5 = 20)

1. Functions of spleen.
2. Physiological events following surgery.
3. Hyperbaric oxygen.
4. Calcium homeostasis.

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

1. Biochemical abnormalities in pyloric stenosis.
2. Hypokalemia.
3. Warburg Effect.

IV. PHARMACOLOGY: (3 x 5 = 15)

1. Antituberculous therapy.
2. Gemcitabine.
3. Warfarin.

V. PATHOLOGY: (3 x 5 = 15)

1. Paraneoplastic syndrome.
2. Types of necrosis.
3. Lymphoma.

VI. MICROBIOLOGY: (3 x 5 = 15)

1. Rabies.
2. HLA typing.
3. Post exposure prophylaxis for HIV.

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

[MS 0525]

MAY 2025

Sub. Code: 4001

M.S. DEGREE EXAMINATION

GENERAL SURGERY

PAPER I – BASIC SCIENCES

Q.P. Code: 224001

Time: Three Hours

Maximum: 100 Marks

Write notes on:

I. ANATOMY:

(4 x 5 = 20)

1. Laparoscopic anatomy of inguinal region.
2. Triangles of Neck.
3. Blood supply of oesophagus.
4. Anorectal malformations.

II. PHYSIOLOGY:

(4 x 5 = 20)

1. Calcium homeostasis.
2. Functions and regulation of exocrine pancreatic secretion.
3. Hypovolemic shock.
4. Enterohepatic circulation of bile.

III. BIO-CHEMISTRY:

(3 x 5 = 15)

1. Thyroid function test.
2. Tumour markers.
3. Metabolic acidosis.

IV. PHARMACOLOGY:

(3 x 5 = 15)

1. Immunomodulators.
2. Sclerosing agents.
3. Medical treatment of ulcerative colitis.

V. PATHOLOGY:

(3 x 5 = 15)

1. Multiple endocrine neoplasia.
2. Polyps of colon.
3. Sentinel lymph node biopsy.

VI. MICROBIOLOGY:

(3 x 5 = 15)

1. Pseudo membranous colitis.
2. Sterilisation of laparoscopic equipment.
3. Gas gangrene.

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

[MS 1025]

OCTOBER 2025

Sub. Code: 4001

M.S. DEGREE EXAMINATION

GENERAL SURGERY

PAPER I – BASIC SCIENCES

Q.P. Code: 224001

Time: Three Hours

Maximum: 100 Marks

Write notes on:

I. ANATOMY: (4 x 5 = 20)

1. Deep cervical fascia and its surgical importance.
2. Sphincter complex of Boyden.
3. Lattissimus dorsi.
4. Waldeyer's ring.

II. PHYSIOLOGY: (4 x 5 = 20)

1. Complications of massive blood transfusion.
2. Verner Morrison syndrome.
3. Metabolic acidosis.
4. Events during defecation.

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

1. Liver function test.
2. Biomarkers in acute pancreatitis.
3. Lactate dehydrogenase.

IV. PHARMACOLOGY: (3 x 5 = 15)

1. H. Pylori regime.
2. Tamoxifen.
3. Tranexamic acid.

V. PATHOLOGY: (3 x 5 = 15)

1. Tumor lysis syndrome.
2. Sentinel node biopsy.
3. Gleason grading.

VI. MICROBIOLOGY: (3 x 5 = 15)

1. Human papilloma virus.
2. Culture medium for tuberculous bacteria.
3. Tetanus.
