

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.
