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

[MD 1223]

# **DECEMBER 2023** (OCTOBER 2023 EXAM SESSION)

Sub. Code: 2000

Maximum: 100 Marks

 $(4 \times 5 = 20)$ 

 $(4 \ge 5 = 20)$ 

 $(3 \times 5 = 15)$ 

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# **M.D. DEGREE EXAMINATION**

# **BRANCH I – GENERAL MEDICINE** PAPER I - APPLIED BASIC SCIENCES IN GENERAL MEDICINE **O.P.** Code: 202000

### **Time : Three Hours**

#### Write Notes on:

### I. ANATOMY:

- 1. Anatomy of the Thoracic Duct.
- 2. Artery of Percheron and its importance.
- 3. Triangle of KOCH with diagrammatic representation.
- 4. Space of Disse, diagrammatic representation and its importance.

# IL PHYSIOLOGY:

- 1. Feedback Loop of Blood Osmolality.
- 2. Modulation of Pain transmission.
- 3. Thyroid hormone synthesis and secretion.
- 4. Adrenal hormone synthesis pathway.

#### **III. BIO-CHEMISTRY:**

- 1. Ionic components concentration in the extracellular and intracellular fluid.
- 2. High energy phosphates.
- 3. Essential Aminoacids.

#### **IV. PHARMACOLOGY:** $(3 \times 5 = 15)$ 1. Rhythm control drugs in Atrial Fibrillation.

- 2. Edrophonium.
- 3. Bupropion.

#### **V. PATHOLOGY:**

- 1. Necroptosis and Pyroptosis.
- 2. Trinucleotide repeat mutations.
- 3. Adaptive Immune System.

VI.	<b>MICROBIOLOGY:</b>
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- 1. Bacterial Plasmids.
- 2. Biofilms.
- 3. Orthomyxoviruses.