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

[MD 1025] **OCTOBER 2025** **Sub. Code: 4095**

M.D. DEGREE EXAMINATION

PSYCHIATRY

PAPER I – BASIC SCIENCES AS RELATED TO PSYCHIATRY

Q.P. Code: 204095

Time: Three Hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 15 = 30)**

1. Discuss in detail cultural factors involved in expression, assessment and treatment of mental illness in an individual. Add a note on immigration and mental health.

2. Define Learning. Describe in detail the theories of learning and its application in the treatment of substance use disorders.

II. Write notes on: **(10 x 7 = 70)**

1. Frontal lobe circuits.
2. Novel Neurotransmitters.
3. Genetic Polymorphisms.
4. Theories of Motivation.
5. Imprinting.
6. Role of Functional MRI in Psychiatry.
7. Evidence Based Medicine.
8. Raven's Progressive Matrices.
9. General Adaptation syndrome.
10. Dream analysis.

****

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

[MD 0526] **MAY 2026** **Sub. Code: 4095**

M.D. DEGREE EXAMINATION

PSYCHIATRY

PAPER I – BASIC SCIENCES AS RELATED TO PSYCHIATRY

Q.P. Code: 204095

Time: Three Hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 15 = 30)**

1. Discuss various defense mechanisms and their significance in understanding various neurotic disorders.

2. Discuss functional anatomy of Basal ganglia and its dysfunctions in psychiatric disorder.

II. Write notes on: **(10 x 7 = 70)**

1. Cognitive dissonance.
2. Margaret Mahler.
3. Stages of sleep.
4. Hypothalamo-pituitary Adrenal axis.
5. Counter transference.
6. GABA.
7. Rating scales for catatonia.
8. Genetic Mapping.
9. Di George syndrome.
10. Tests of memory.

****

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

[MD 0926] SEPTEMBER 2026 Sub. Code: 4085

M.D. DEGREE EXAMINATION

EMERGENCY MEDICINE

PAPER I – APPLIED BASIC SCIENCES RELATED TO EMERGENCY MEDICINE

Q.P. Code: 204085

Time : Three Hours **Maximum : 100 Marks**

Write Notes on:

I. ANATOMY: **(4 x 5 = 20)**

1. Recurrent Laryngeal nerve.
2. Muscles of respiration.
3. Circle of Willis.
4. Morrison's Pouch.

II. PHYSIOLOGY: **(4 x 5 = 20)**

1. Syncope.
2. Jugular Venous Pressure.
3. Conduction system of heart.
4. End tidal Carbon-di-oxide.

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

1. Cardiac biomarkers.
2. Osmolar gap.
3. Liver Function Tests.

IV. PHARMACOLOGY: **(3 x 5 = 15)**

1. Direct oral anticoagulants.
2. Propofol.
3. Hypertonic Saline.

V. PATHOLOGY: **(3 x 5 = 15)**

1. Thrombo Elastography (TEG).
2. Acute tubular necrosis.
3. Transfusion reactions.

VI. MICROBIOLOGY: **(3 x 5 = 15)**

1. Needle stick injury protocol.
2. Biomedical waste management.
3. Ventilator associated pneumonia.

****