

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

[MD 0524]

MAY 2024

Sub. Code: 4049

M.D. DEGREE EXAMINATION

BRANCH XVIII – PSYCHIATRY

PAPER I – BASIC SCIENCES AS RELATED TO PSYCHIATRY

Q.P. Code: 204049

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the functional Neuroanatomy of Temporal lobe in detail.
2. Classical conditioning and Operant conditioning. Discuss their application in clinical setting with one example for each.

II. Write notes on:

(10 x 7 = 70)

1. Serotonin.
2. Rapid Eye Movement (REM) sleep.
3. Memory encoding, storage and retrieval.
4. Frontal lobe.
5. Shaping and modeling.
6. Analysis of Variance (ANOVA). Its role in research in behavioral Medicine.
7. Mature Defences.
8. GABA receptors.
9. Wechsler's Adult Intelligence Scale (WAIS).
10. Limbic system.

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

[MD 1224]

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

Sub. Code: 4049

M.D. DEGREE EXAMINATION

PSYCHIATRY

PAPER I – BASIC SCIENCES AS RELATED TO PSYCHIATRY

Q.P. Code: 204049

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe the Thalamus and its connections. Elaborate on its relevance in Psychiatry.
2. Discuss the various theories of Personality and note on Personality Assessment.

II. Write notes on:

(10 x 7 = 70)

1. Direct and Indirect pathway of Basal ganglia.
2. Anna Freud.
3. Endocannabinoids
4. Electrophysiology of Sleep.
5. Animal models for Depression.
6. Psychodynamics of Suicide.
7. Genetics of Alcoholism.
8. Rating Scales for Catatonia.
9. Non- Parametric Tests.
10. Leadership Qualities.

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

[MD 0525]

MAY 2025

Sub. Code: 4049

M.D. DEGREE EXAMINATION

PSYCHIATRY

PAPER I – BASIC SCIENCES AS RELATED TO PSYCHIATRY

Q.P. Code: 204049

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe the Executive functions of the brain, their clinical significance in Psychiatry and test to measure them.
2. Define Personality. Briefly describe the theories of personality and various projective and non-projective methods of personality assessment.

II. Write notes on:

(10 x 7 = 70)

1. Rotter's Locus of Control.
2. Group Dynamics.
3. Measures of Statistical significance.
4. Piaget contribution to Psychiatry.
5. Orexin.
6. Triphasic waves in Electro encephalogram (EEG).
7. Pharmacogenomics.
8. Brain Derived Neurotrophic Factor (BDNF).
9. Anaclitic depression.
10. Endorphins and Enkephalins.
