

[LP 1019]

OCTOBER 2019

Sub. Code: 2021

**M. Phil CLINICAL PSYCHOLOGY EXAMS**  
**(Candidate admitted from 2017-2018 onwards)**  
**SECOND YEAR**  
**PAPER I – BIOLOGICAL FOUNDATIONS OF BEHAVIOUR**

*Q.P. Code : 152021*

**Time : Three hours**

**Maximum : 70 Marks**

**I. Elaborate on:** (1 x 20 = 20)

1. Discuss the functions of the temporal lobe. Describe the psychological tools used to measure the deficits of temporal lobe functions.

**II. Write notes on:** (2 x 10 = 20)

1. Role of limbic system.
2. Define attention and how is it assessed.

**II. Write notes on:** (6 x 5 = 30)

1. Neuropsychological rehabilitation.
2. Neurobiology of memory.
3. Corpus callosum.
4. Neuropsychology of acquired immunodeficiency syndrome.
5. Korsakoff syndrome.
6. Executive functions.

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[LQ 1019]

**NOVEMBER 2020**  
**(MAY 2020 EXAM SESSION)**  
**M. Phil CLINICAL PSYCHOLOGY**  
**(Candidate admitted from 2017-2018 onwards)**  
**SECOND YEAR**  
**PAPER I – BIOLOGICAL FOUNDATIONS OF BEHAVIOUR**

Sub. Code: 2021

*Q.P. Code : 152021*

**Time : Three hours**

**Maximum : 70 Marks**

**I. Elaborate on:**

**(1 x 20 = 20)**

1. The structure of cell and describe the role of neurotransmitters and neuromodulators in the human behavior.

**II. Write notes on:**

**(2 x 10 = 20)**

1. The neuropsychological profile of cortical and subcortical dementia.
2. Structure and functions of temporal lobe

**III. Write notes on:**

**(6 x 5 = 30)**

1. The scope and indication of neuropsychological assessments
2. Agnosia
3. Korsakoff syndrome
4. Thalamus and its role
5. Neurobiology of learning & memory
6. Resting potentials

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

[AHS 0321]

**MARCH 2021**

**Sub. Code: 2021**

**(OCTOBER 2020 EXAM SESSION)**

**M. Phil. CLINICAL PSYCHOLOGY**

**SECOND YEAR (From 2017-2018 onwards)**

**PAPER I – BIOLOGICAL FOUNDATIONS OF BEHAVIOUR**

*Q.P. Code : 152021*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(1 x 20 = 20)**

1. The structure and functions of frontal lobe and enumerate the neuropsychological deficits associated with its lesions.

**II. Write notes on:**

**(2 x 10 = 20)**

1. Visual pathways
2. The role of limbic system in regulating the internal environment

**III. Write notes on:**

**(6 x 5 = 30)**

1. Cytoarchitecture and modular organization in the brain
2. Neurobiology of motivation
3. The endocrine glands & its functions
4. Neurofeedback and cognitive aids
5. Supporting cells and blood brain barrier
6. Neuropsychological assessment in children

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

[AHS 0122]

**JANUARY 2022  
(OCTOBER 2021 EXAM SESSION)**

**Sub. Code: 2021**

**M. Phil. CLINICAL PSYCHOLOGY  
SECOND YEAR (From 2017-2018 onwards)  
PAPER I – BIOLOGICAL FOUNDATIONS OF BEHAVIOUR  
*Q.P. Code : 152021***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 70 Marks**

**I. Elaborate on:**

**(1 x 20 = 20)**

1. The significance of the neuropsychological assessments and elucidate the principles, objectives and methods of neuro-rehabilitation of traumatic brain injury.

**II. Write notes on:**

**(2 x 10 = 20)**

1. Psychological profile of Parkinson's disease and mood disorders
2. Functional human brain mapping

**III. Write notes on:**

**(6 x 5 = 30)**

1. Huntington's disease
2. Brain metabolism
3. Neurobiology of sleep & wakefulness
4. Genetic aspects of mental retardation
5. Basal ganglia
6. Parietal lobe syndrome

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

**[AHS 1022]**

**OCTOBER 2022**

**Sub. Code: 2021**

**M.Phil. CLINICAL PSYCHOLOGY  
SECOND YEAR (From 2017-2018 batch onwards)  
PAPER I – BIOLOGICAL FOUNDATIONS OF BEHAVIOUR**

*Q.P. Code : 152021*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 70 Marks**

**I. Elaborate on:**

**(1x20=20)**

1. Describe in detail about anatomy and functions of frontal lobe and its associated neuropsychological disturbances.

**II. Write notes on:**

**(2x10=20)**

1. Temporal lobe syndrome.
2. Neuropsychological rehabilitation in major mental disorders.

**III. Write notes on:**

**(6x5=30)**

1. Neurobiology of hunger and thirst.
2. Neurotransmitters in major mental disorders.
3. Blood Brain barrier.
4. Reward pathways in Brain.
5. Gerstmann syndrome.
6. Reticular formation and its functions.

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

**[AHS 0523]**

**MAY 2023**

**Sub. Code: 2021**

**M.PHIL CLINICAL PSYCHOLOGY  
SECOND YEAR (From 2017-2018 batch onwards)  
PAPER I – BIOLOGICAL FOUNDATIONS OF BEHAVIOUR**

*Q.P. Code: 152021*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 70 Marks**

**I. Elaborate on:**

**(1x20=20)**

1. Describe about neuropsychological profile of major mental disorders and explain the importance of neuropsychological rehabilitation in those disorders.

**II. Write notes on:**

**(2x10=20)**

1. Frontal lobe syndrome.
2. Neuropsychological assessments for temporal lobe lesion.

**III. Write notes on:**

**(6x5=30)**

1. Agnosia.
2. Neurological soft signs.
3. Computer based cognitive training.
4. Executive functions.
5. Lateralization of brain.
6. Neuromodulators.

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

**[AHS 1023]**

**OCTOBER 2023**

**Sub. Code: 2021**

**M.PHIL. CLINICAL PSYCHOLOGY  
SECOND YEAR (From 2017-2018 onwards)  
PAPER I – BIOLOGICAL FOUNDATIONS OF BEHAVIOUR**

*Q.P. Code: 152021*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 70 Marks**

**I. Elaborate on:**

**(1x20=20)**

1. Discuss neuropsychology sequelae in head injury patients.

**II. Write notes on:**

**(2x10=20)**

1. Blood brain barrier.
2. Neglect.

**III. Write notes on:**

**(6x5=30)**

1. Hemispheric asymmetry.
2. Neurotransmitters.
3. Role of neuroplasticity in rehabilitation.
4. Neurocognitive deficits in korsakoff psychosis.
5. Corpus callosum.
6. Behavioural changes in temporal lobe epilepsy.

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