

MARCH 2008

[KS 1576]

Sub. Code : 3065

DIPLOMA IN PSYCHOLOGICAL MEDICINE (D.P.M.)
EXAMINATION.

Paper I – BASIC SCIENCES AS RELATED TO PSYCHIATRY
(NEURO-ANATOMY, NEUROPHYSIOLOGY, NEUROCHEMISTRY,
BIOSTATISTICS, GENERAL PSYCHOLOGY, ABNORMAL
PSYCHOLOGY, SOCIAL PSYCHOLOGY, PSYCHOMETRY AND
GENETICS)

(Candidates admitted from 2006-2007 onwards)

Q.P. Code : 343065

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

- I. Write essay on : (2 × 20 = 40)
1. Discuss the functional anatomy and physiology of the frontal cortex of the brain. (20)
 2. Discuss the role of personality tests and their clinical application. (20)
- II. Write short notes : (10 × 6 = 60)
1. Differential diagnoses of Headache.
 2. Polygenic disorder.
 3. Migration and mental illness.
 4. Jean Piaget.
 5. Current understandings on amygdala.
 6. T-test.
 7. Freudian theories on dreams.
 8. Palmo-Mental reflex.
 9. PET Scan.
 10. Endorphins.
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September 2008

[KT 1576]

Sub. Code: 3065

**DIPLOMA IN PSYCHOLOGICAL MEDICINE (D.P.M.)
EXAMINATION.**

**Paper I – BASIC SCIENCES AS RELATED TO PSYCHIATRY
(NEURO-ANATOMY, NEUROPHYSIOLOGY,
NEUROCHEMISTRY, BIOSTATISTICS, GENERAL
PSYCHOLOGY, ABNORMAL PSYCHOLOGY, SOCIAL
PSYCHOLOGY, PSYCHOMETRY AND GENETICS)**

(For Candidates admitted from 2006-07 onwards)

Q.P. Code : 343065

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions : (2 X 20 = 40)

1. Discuss the Neurobiology of aggression.
2. Describe the learning theories and their clinical applications.

II. Write short notes on : (10 X 6 = 60)

1. ANOVA and its variants.
 2. Narcoanalysis.
 3. Thalamus in Psychiatry.
 4. Eye movement dysfunction in Schizophrenia.
 5. Freudian theory and its relevance.
 6. Magnetic Resonance Spectroscopy.
 7. Wisconsin Card Sorting Test.
 8. Homocystinuria.
 9. Dialectical Behaviour Therapy.
 10. CNS GABA in Psychiatry.
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MARCH -2009

[KU 1576]

Sub. Code: 3065

**DIPLOMA IN PSYCHOLOGICAL MEDICINE (D.P.M.)
EXAMINATION.**

**Paper I – BASIC SCIENCES AS RELATED TO PSYCHIATRY
(NEURO-ANATOMY, NEUROPHYSIOLOGY, NEURO
CHEMISTRY, BIOSTATISTICS, GENERAL PSYCHOLOGY,
ABNORMAL PSYCHOLOGY, SOCIAL PSYCHOLOGY,
PSYCHOMETRY AND GENETICS)**

(For Candidates admitted from 2006-07 onwards)

Q.P. Code : 343065

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions : (2 X 20 = 40)

1. Describe the Neurophysiology of sleep.
2. Discuss the role of GABA in CNS neurotransmission and its relevance for psychiatric disorder.

II. Write short notes on : (10 X 6 = 60)

1. Nonparametric statistics.
2. Systematic desensitization.
3. Corpus Callosum.
4. p300 Event related potential.
5. Contributions of Dr. A. Venkoba Rao.
6. Functional Magnetic Resonance Imaging.
7. Rorschach and its relevance.
8. Genetic counseling in Psychiatry.
9. Cognitive Behaviour Therapy in Depression.
10. Excitatory Neurotransmitters.

September - 2009

[KV 1576]

Sub. Code: 3065

**DIPLOMA IN PSYCHOLOGICAL MEDICINE (D.P.M.)
EXAMINATION.**

**Paper I – BASIC SCIENCES AS RELATED TO PSYCHIATRY
(NEURO-ANATOMY, NEUROPHYSIOLOGY, NEURO
CHEMISTRY, BIOSTATISTICS, GENERAL PSYCHOLOGY,
ABNORMAL PSYCHOLOGY, SOCIAL PSYCHOLOGY,
PSYCHOMETRY AND GENETICS)**

(For Candidates admitted from 2006-07 onwards)

Q.P. Code : 343065

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions : (2 X 20 = 40)

1. Describe the functions of parietal lobe and tests to assess it. Discuss the clinical features of parietal lobe lesions.
2. Influence of learning theories on our understanding of causes and cure of neurosis.

II. Write short notes on : (10 X 6 = 60)

1. Genetics of mood disorders.
2. Norepinephrine dysfunction in depression.
3. Projective tests.
4. Papez circuit.
5. Opioid receptors.
6. John Bowlby.
7. Psychobiology of obsessive compulsive disorder.
8. Stages of sleep.
9. Social theories of schizophrenia.
10. Case control study.

March 2010

[KW 1576]

Sub. Code: 3065

DIPLOMA IN PSYCHOLOGICAL MEDICINE (D.P.M.)

EXAMINATION

**BASIC SCIENCES AS RELATED TO PSYCHIATRY
(NEURO-ANATOMY, NEUROPHYSIOLOGY, NEURO
CHEMISTRY, BIOSTATISTICS, GENERAL PSYCHOLOGY,
ABNORMAL PSYCHOLOGY, SOCIAL PSYCHOLOGY,
PSYCHOMETRY AND GENETICS)**

Paper I – (for candidates admitted from 2006-07 to 2007-08) and

Part I – (for candidates admitted from 2008-09 onwards)

Q.P. Code : 343065

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary

Answer ALL questions

I. Essay questions :

(2 x 20 = 40)

1. Discuss the functional neuro anatomy of limbic system. Describe the functional significance of limbic system.
2. What is intelligence? Critically evaluate the intelligence tests in clinical psychiatry.

II. Write short notes on :

(10 x 6 = 60)

1. Genetic etiology of alcoholism.
2. Psychoanalysis.
3. Synaptic transmission.
4. Biology of memory.
5. Pineal gland.
6. Type A personality.
7. Speech areas of cerebral cortex.
8. Evoked potentials.
9. Confidence intervals.
10. Erik Erikson.

**DIPLOMA IN PSYCHOLOGICAL MEDICINE (D.P.M.)
EXAMINATION.**

**BASIC SCIENCES AS RELATED TO PSYCHIATRY
(NEURO-ANATOMY, NEUROPHYSIOLOGY, NEURO
CHEMISTRY, BIOSTATISTICS, GENERAL PSYCHOLOGY,
ABNORMAL PSYCHOLOGY, SOCIAL PSYCHOLOGY,
PSYCHOMETRY AND GENETICS)**

**Paper I – (for candidates admitted from 2006-07 to 2007-08) and
Part I – (for candidates admitted from 2008-09 onwards)**

Q.P. Code : 343065

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions :

(2 X 20 = 40)

1. Discuss in detail about Dopamine receptors and its role in various Psychiatric disorders.
2. Write an essay on the Neurobiology of Sleep.

II. Write short notes on :

(10 X 6 = 60)

1. Culture and Mental disorders.
2. Circadian Rythms.
3. Genetics of mood disorders.
4. Freudian theory and its relevance.
5. Memory.
6. Spirituality and Mental Health.
7. Obsession.
8. Projection Tests.
9. Oedipus complex.
10. Psychopathology of Hysteria.

APRIL 2011

[KY 1576]

Sub. Code: 3065

**DIPLOMA IN PSYCHOLOGICAL MEDICINE (DPM)
EXAMINATION**

**BASIC SCIENCES AS RELATED TO PSYCHIATRY
(NEURO-ANATOMY, NEUROPHYSIOLOGY, NEURO
CHEMISTRY, BIOSTATISTICS, GENERAL PSYCHOLOGY,
ABNORMAL PSYCHOLOGY, SOCIAL PSYCHOLOGY,
PSYCHOMETRY AND GENETICS)**

Q.P. Code : 343065

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. What are Neurotransmitters? Discuss the classification of neurotransmitters and Dopaminergic tracts and its psychopathology.	11	35	15
2. Define Aggression. Discuss the etiology, predictors and management of aggressive behaviours.	11	35	15

II. Write notes on :

1. ANOVA.	4	10	7
2. Papez circuit.	4	10	7
3. Lewy Body Dementia.	4	10	7
4. Projective tests in Psychology.	4	10	7
5. C.G. Jung.	4	10	7
6. Leadership Qualities.	4	10	7
7. Basal Ganglia.	4	10	7
8. Social Isolation.	4	10	7
9. Adoption studies in Psychiatry.	4	10	7
10. Serotonin.	4	10	7

October 2011

[KZ 1576]

Sub. Code: 3065

DIPLOMA IN PSYCHOLOGICAL MEDICINE (DPM) EXAMINATION

**BASIC SCIENCES AS RELATED TO PSYCHIATRY
(NEURO-ANATOMY, NEUROPHYSIOLOGY, NEURO
CHEMISTRY, BIOSTATISTICS, GENERAL PSYCHOLOGY,
ABNORMAL PSYCHOLOGY, SOCIAL PSYCHOLOGY,
PSYCHOMETRY AND GENETICS)**

Q.P. Code : 343065

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Define Intelligence. Write in short about the various theories of Intelligence.	11	35 min.	15
2. Write an essay on the anatomy and functions of the Hypothalamus.	11	35 min.	15

II. Write notes on :

1. G proteins.	4	10 min.	7
2. Dopamine pathway.	4	10 min.	7
3. Creative thinking.	4	10 min.	7
4. Super Ego.	4	10 min.	7
5. Extra sensory perception.	4	10 min.	7
6. Abraham Maslow's Hierarchy of needs.	4	10 min.	7
7. Social Isolation.	4	10 min.	7
8. Adoption studies.	4	10 min.	7
9. Tests of memory.	4	10 min.	7
10. f MRI in psychiatry.	4	10 min.	7

DIPLOMA IN PSYCHOLOGICAL MEDICINE (DPM) EXAMINATION**BASIC SCIENCES AS RELATED TO PSYCHIATRY
(NEURO-ANATOMY, NEUROPHYSIOLOGY, NEURO
CHEMISTRY, BIOSTATISTICS, GENERAL PSYCHOLOGY,
ABNORMAL PSYCHOLOGY, SOCIAL PSYCHOLOGY,
PSYCHOMETRY AND GENETICS)****Q.P. Code : 343065****Time : 3 hours
(180 Min)****Maximum : 100 marks****Answer ALL questions in the same order.****I. Elaborate on :**

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Theories of Personality.	16	35	15
2. Monoamine Neurotransmitters.	16	35	15

II. Write notes on :

1. Normality.	4	10	7
2. Hierarchy of Motivation.	4	10	7
3. Prefrontal Cortex.	4	10	7
4. Randomized controlled Trial.	4	10	7
5. Intelligent Testing.	4	10	7
6. Adoption Studies in Psychiatry.	4	10	7
7. Case Control Study.	4	10	7
8. Thematic Apperception Test.	4	10	7
9. Hypothalamic – Pituitary – Adrenal Axis.	4	10	7
10. Grief.	4	10	7

[LB1576]

OCTOBER 2012

Sub. Code: 3065

DIPLOMA IN PSYCHOLOGICAL MEDICINE (DPM) EXAMINATION
BASIC SCIENCES AS RELATED TO PSYCHIATRY (NEURO-ANATOMY,
NEUROPHYSIOLOGY, NEUROCHEMISTRY, BIOSTATISTICS, GENERAL PSYCHOLOGY,
ABNORMAL PSYCHOLOGY, SOCIAL PSYCHOLOGY, PSYCHOMETRY AND GENETICS)
Q.P. Code : 343065

Time: 3 hours
(180 Min)

Maximum: 100 marks

Answer ALL questions in the same order.

I. Elaborate on:

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Describe the functions of limbic system and its role in Psychiatric disorders	16	35	15
2. Describe in detail about Jean Piaget and his cognitive developmental stages.	16	35	15

II. Write Notes on :

1. Describe the various tests to assess Frontal lobe and their clinical implications.	4	10	7
2. Konrad Lorenz – His contributions to the field of behavioral medicine	4	10	7
3. Define Double Blind study. Describe its role in medical research	4	10	7
4. Neurotransmitter Serotonin – its role in understanding the biology of mental illness.	4	10	7
5. Describe various instruments to assess Intelligence in children and adults.	4	10	7
6. Psychological theory behind Defense mechanism and their clinical relevance.	4	10	7
7. Role of Positron Emission tomography (PET) – in Psychiatry research and in clinical practice.	4	10	7
8. Describe various Stages of Sleep and name disorders Occurring in each stage.	4	10	7
9. Psychological theories of Motivation and their Clinical relevance.	4	10	7
10. Understanding behind Social theories of Schizophrenia and its clinical relevance.	4	10	7

**DIPLOMA IN PSYCHOLOGICAL MEDICINE (DPM) EXAMINATION
BASIC SCIENCES AS RELATED TO PSYCHIATRY
(NEURO-ANATOMY, NEUROPHYSIOLOGY, NEURO
CHEMISTRY, BIOSTATISTICS, GENERAL PSYCHOLOGY,
ABNORMAL PSYCHOLOGY, SOCIAL PSYCHOLOGY,
PSYCHOMETRY AND GENETICS)
Q.P. Code: 343065**

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Elaborate on Neuro anatomy of limbic system and its relevance in psychiatry.
2. Neuro physiology of sleep and management of Primary insomnia and Primary hyper somnia

II. Write notes on:

(10X7=70)

1. Role of Serotonin as a neurotransmitter.
2. Emotional Development in Adolescence and describe about emotional quotient and its applied psychology.
3. Application of Chi-square test in Psychiatric research.
4. Role of Family studies in understanding aetiopathogenesis of various mood disorders.
5. Psychological factors and Biological factors in suicide and make a note about suicide prevention.
6. Contributions of Professor A.Venkoba Rao to Indian psychiatry.
7. Social development in children and make a note about social quotient and its applied psychology.
8. Discuss about Type I and Type II error in biostatistics.
9. Mature defense mechanisms and make a note about Altruism.
10. Contributions of Aaron Beck to Psychiatry.

[LG 1576]

APRIL 2015

Sub. Code: 3065

**DIPLOMA IN PSYCHOLOGICAL MEDICINE (DPM)
EXAMINATION**

**APPLIED BASIC SCIENCES AS RELATED TO PSYCHIATRY
(NEURO-ANATOMY, NEUROPHYSIOLOGY, NEURO CHEMISTRY,
BIOSTATISTICS, GENERAL PSYCHOLOGY, ABNORMAL PSYCHOLOGY,
SOCIAL PSYCHOLOGY, PSYCHOMETRY AND GENETICS)**

Q.P. Code: 343065

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 15 = 30)

1. Memory and memory disorders.
2. Biogenic amine Neurotransmitters.

II. Write notes on:

(10 x 7 = 70)

1. Defence mechanisms.
2. Erick Erikson.
3. Stages of sleep.
4. Case control study.
5. Twin and adoption studies.
6. Normal distribution and standard deviation.
7. Basal ganglia.
8. Operant conditioning.
9. Rorschach ink blot test.
10. Attitudes.

DIPLOMA IN PSYCHOLOGICAL MEDICINE (DPM) EXAMINATION

APPLIED BASIC SCIENCES AS RELATED TO PSYCHIATRY

(NEURO-ANATOMY, NEUROPHYSIOLOGY, NEURO CHEMISTRY, BIOSTATISTICS,
GENERAL PSYCHOLOGY, ABNORMAL PSYCHOLOGY, SOCIAL PSYCHOLOGY,
PSYCHOMETRY AND GENETICS)

Q.P.Code: 343065

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe the Dopamine pathways in the brain and its role in psychiatric disorders.
2. Describe the theories of intelligence and methods to assess intelligence.

II. Write notes on:

(10 x 7 = 70)

1. N-methyl D-aspartate (NMDA) receptors.
2. Amygdala.
3. Prefrontal cortex.
4. Chi- square test.
5. Classical conditioning.
6. Hierarchy of motivation.
7. Hypothalamic-pituitary-adrenal axis.
8. Thematic Apperception Test.
9. Stress-Diathesis model.
10. Prejudice.

DIPLOMA IN PSYCHOLOGICAL MEDICINE (DPM) EXAMINATION

APPLIED BASIC SCIENCES AS RELATED TO PSYCHIATRY

(NEURO-ANATOMY, NEUROPHYSIOLOGY, NEURO CHEMISTRY, BIOSTATISTICS,
GENERAL PSYCHOLOGY, ABNORMAL PSYCHOLOGY, SOCIAL PSYCHOLOGY,
PSYCHOMETRY AND GENETICS)

Q.P.Code: 343065

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe classical and instrumental conditioning and its role in behaviour therapy.
2. Lobar functions of the brain and its assessment.

II. Write notes on:

(10 x 7 = 70)

1. Thalamus.
2. Acetyl choline.
3. Population genetics.
4. Assessment of Intelligence.
5. Type I and Type II errors.
6. Projective tests.
7. Mature Defence mechanisms.
8. Altruism.
9. Violence.
10. Approach-Avoidance conflict.

(LM 1576)

MAY 2018

Sub. Code: 3065

DIPLOMA IN PSYCHOLOGICAL MEDICINE (DPM) EXAMINATION

APPLIED BASIC SCIENCES AS RELATED TO PSYCHIATRY

(NEURO-ANATOMY, NEUROPHYSIOLOGY, NEURO CHEMISTRY, BIOSTATISTICS,
GENERAL PSYCHOLOGY, ABNORMAL PSYCHOLOGY, SOCIAL PSYCHOLOGY,
PSYCHOMETRY AND GENETICS)

Q.P.Code: 343065

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe in detail anatomy of Limbic system. Mention emotional disorders related to Limbic dysfunction.
2. Define Learning. Describe various theories of Learning.

II. Write notes on:

(10 x 7 = 70)

1. Acetylcholine.
2. Association studies.
3. Hippocampus.
4. Jean Piaget.
5. Theories of sleep.
6. Gestalt school.
7. Thematic Apperception test.
8. Measures of Central tendencies.
9. Leadership qualities.
10. Family theories of Schizophrenia.

DIPLOMA IN PSYCHOLOGICAL MEDICINE (DPM) EXAMINATION

APPLIED BASIC SCIENCES AS RELATED TO PSYCHIATRY

(NEURO-ANATOMY, NEUROPHYSIOLOGY, NEURO CHEMISTRY, BIOSTATISTICS,
GENERAL PSYCHOLOGY, ABNORMAL PSYCHOLOGY, SOCIAL PSYCHOLOGY,
PSYCHOMETRY AND GENETICS)

Q.P. Code: 343065

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss in detail about the Epigenetic Principle in the Human Life Cycle.
2. Various tools used in Adult Personality Assessment and their clinical applications.

II. Write notes on:

(10 x 7 = 70)

1. Limbic System.
2. Neurosteroids.
3. Alfred Adler.
4. Collective Unconsciousness.
5. SPECT and its current role in psychiatry.
6. Dopamine Receptors.
7. Learning and Conditioning in Substance Abuse.
8. Parametric Tests.
9. Attachment Theory.
10. Frontal lobe functions.

[LQ 1576]

AUGUST 2020
(MAY 2020 SESSION)

Sub. Code: 3065

DIPLOMA IN PSYCHOLOGICAL MEDICINE (DPM) EXAMINATION

APPLIED BASIC SCIENCES AS RELATED TO PSYCHIATRY

(NEURO-ANATOMY, NEUROPHYSIOLOGY, NEURO CHEMISTRY, BIOSTATISTICS,
GENERAL PSYCHOLOGY, ABNORMAL PSYCHOLOGY, SOCIAL PSYCHOLOGY,
PSYCHOMETRY AND GENETICS)

Q.P. Code: 343065

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Elaborate on various psychoanalytical schools and critically evaluate.
2. Classify neurotransmitters and discuss their importance in psychiatry.

II. Write notes on:

(10 x 7 = 70)

1. Executive functions.
2. Group dynamics.
3. Aggression.
4. Margaret Mahler.
5. Transference.
6. Sampling procedures.
7. Couples therapy.
8. Genetic causes of intellectual disability.
9. Neuronal migration
10. Intelligence tests

(DPM 0721)

**JULY 2021
(MAY 2021 SESSION)**

Sub. Code: 3065

DIPLOMA IN PSYCHOLOGICAL MEDICINE (DPM) EXAMINATION

APPLIED BASIC SCIENCES AS RELATED TO PSYCHIATRY

**(NEURO-ANATOMY, NEUROPHYSIOLOGY, NEURO CHEMISTRY, BIOSTATISTICS,
GENERAL PSYCHOLOGY, ABNORMAL PSYCHOLOGY, SOCIAL PSYCHOLOGY,
PSYCHOMETRY AND GENETICS)**

Q.P. Code: 343065

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Memory and neuropsychological basis of memory.
2. Functions of parietal lobe. What are the causes and clinical features of parietal lobe dysfunction?

II. Write notes on:

(10 x 7 = 70)

1. Mature defenses.
2. Abraham maslow.
3. Chi-square Test.
4. Cerebellum.
5. Cognitive dissonance.
6. Draw a person test.
7. Circadian rhythm.
8. Dopaminergic pathways of brain.
9. Mob behavior.
10. Fragile X syndrome.
