

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.)
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- | | | | |
|--|----|---------|----|
| 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
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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.
