

**SYLLABUS OF M.D. (PSYCHIATRY)
DEPARTMENT OF PSYCHIATRY, J.N. MEDICAL COLLEGE
A.M.U., ALIGARH.**

Time: 03 hour

MM:100

PAPER 1 (MDPS01)

BASIC SCIENCE AS RELATED TO PSYCHIATRY

• **NEUROANATOMY:**

Introduction and Considerations for a Brain-based diagnostic system in Psychiatry. Neural Development and Neurogenesis. Neurotrophic Factors. Nuclear Magnetic Resonance Imaging and Spectroscopy: Basic principles and recent findings in Neuropsychiatric disorders. Radiotracer imaging with Positron Emission Tomography and Single Photon Emission Computed Tomography. Pain systems: Interface with the affective brain. Neuroscience of substance abuse and dependence. Functional Neuroanatomy. Principles and techniques of Neuroimaging.

• **NEUROCHEMISTRY:**

Monoamine neurotransmitters. Amino acid neurotransmitters. Neuropeptides: biology and regulation. Novel Neurotransmitters. Intraneuronal signalling.

• **NEUROPHYSIOLOGY:**

Genome, transcriptome and Proteome: Charting a New course to understanding the molecular Neurobiology of mental disorders . Basic electrophysiology. Applied electrophysiology. The Neuroscience of social interaction. Basic science of self. Basic science of appetite. Basic science of sleep and dreaming, Psychoneuroendocrinology. Immune system and central nervous system interactions. Chronobiology. Basic Molecular Neurobiology.

• **PSYCHOLOGY:**

Sensation, Perception and Cognition. Piaget and cognitive development. Learning Theory. Biology of Memory. Brain Models of Mind. Consciousness and dreaming from a pathophysiological perspective: the thalamocortical syndrome. Normality and mental health. Theories of Personality and Psychopathology: Classical Psychoanalysis, Erik H. Erikson, Other Psychodynamic schools. Approaches derived from Philosophy and Psychology.

- **SOCIOLOGY:**

Sociology and Psychiatry, Sociobiology and Psychiatry, Sociopolitical aspects of Psychiatry: Posttraumatic stress disorders. Transcultural Psychiatry .Aggression. Anthropology and Psychiatry.

- **QUANTITATIVE AND EXPERIMENTAL METHODS IN PSYCHIATRY:**

Epidemiology. Major Epidemiological Studies. Animal Models in psychiatric research. Biostatistics. Research methodologies. Statistical and experimental design.

- **GENETICS:**

Population genetics and Genetic Epidemiology, Genetic Linkage analysis of Psychiatric Disorders.

PAPER 2 (MDPS02)

CLINICAL PSYCHIATRY

Time: 03 hour

MM:100

- **DIAGNOSIS AND PSYCHIATRY: EXAMINATION OF THE PSYCHIATRIC PATIENTS:**

The Psychiatric Interview, History and Mental Status Examination. Psychiatric Report, Medical Record, and Medical Error. Signs and symptoms of Psychiatric illness. Practice guidelines in Psychiatry. Clinical Neuropsychological and Intellectual Assessment of Adults, Personality assessment and various projective test of adults and children. Neuro Psychological and Cognitive Assessment of Children. Medical Assessment and laboratory testing in Psychiatry, Principles and application of Quantitative Electroencephalography in Psychiatry. Psychiatric Ratings Scales. Electronic media in Psychiatry.

- **CLINICAL MANIFESTATION OF PSYCHIATRIC DISORDERS.**
- **PSYCHIATRIC CLASSIFICATION:**

Classification of mental disorders with general references to ICD-10 and DSM-5. The classification of mental disorders in the International Classification of Diseases.

- **SCHIZOPHRENIA SPECTRUM AND OTHER PSYCHOTIC DISORDERS:**

Schizophrenia: Epidemiology, Schizophrenia: Brain structure and function, Schizophrenia: Neurochemical, Viral and immunological studies, Schizophrenia: Genetics, Schizophrenia: psychodynamic to Neurodynamic theories, Schizophrenia: clinical features. Pharmacological treatment. Schizophrenia: psychosocial approaches. Schizophrenia- Individual Psychotherapy. Recovery i schizophrenia. Schizoaffective disorder, Schizophreniform Disorder, Brief Psychotic Disorder, Delusional disorder. Shared Psychotic disorders. Acute and Transient Psychotic disorder. Catatonia. Postpartum Psychiatric syndromes.

- **BIPOLAR AND RELATED DISORDERS:**

Mood disorders: Epidemiology, Mood disorders: Biochemical aspects, mood disorders: Genetics. Mood disorders: intrapsychic and interpersonal approaches. Mood disorders: Clinical features, Mood disorders: Somatic treatment, Mood disorders Psychological treatment. Cyclothymic Disorder.

- **DEPRESSIVE DISORDERS:**

Depressive disorders: Epidemiology. Biochemical aspects. Genetic Aspects. Depressive disorders: Psychodynamic Etiology, Depressive disorders: Clinical features, Depressive disorders: Somatic treatment, Psychological treatment. Disruptive Mood Dysregulation Disorder. Dysthymia. Premenstrual Dysphoric Disorder.

- **ANXIETY DISORDERS:**

Anxiety Disorders: Epidemiology, Psychophysiological aspects, Neurochemical aspects, Neuroimaging, genetics, somatic treatments, Cognitive Behavioral Therapy. Panic Disorder. Agoraphobia, Specific Phobias. Social Phobia. Generalized Anxiety Disorder. Separation Anxiety Disorder. Selective Mutism.

- **OBSESSIVE – COMPULSIVE AND RELATED DISORDERS:**

Obsessive Compulsive Disorder, Body Dysmorphic Disorder, Hoarding Disorder, Trichotillomania, Excoriation (skin - picking) Disorder, substance / medication-induced obsessive – compulsive and related Disorder.

- **TRAUMA – AND STRESSOR – RELATED DISORDERS:**

Reactive Attachment Disorder, Disinhibited Social Engagement Disorder, Posttraumatic Stress Disorder and Acute stress Disorders. Adjustment Disorders. Other Specified Trauma – And Stressor – Related Disorders, Unspecified Trauma – And Stressor – Related Disorders

- **DISSOCIATIVE DISORDERS:**

Dissociative Identity Disorder, Dissociative Amnesia, Depersonalization/ Derealisation Disorder, Other Specified Dissociative Disorder, Unspecified Dissociative disorder.

- **SOMATIC- SYMPTOM AND RELATED DISORDERS:**

Somatic- Symptom Disorder, Illness Anxiety Disorder, Conversion Disorder, Factitious Disorders. Other Specified Somatic- Symptom and Related Disorders, Unspecified Somatic- Symptom and Related Disorders.

- **SLEEP – WAKE DISORDERS:**

Insomnia Disorder, Hypersomnolence Disorder, Narcolepsy, Obstructive Sleep Apnea hypopnea, Central Sleep Apnea, Sleep Related Hypoventilation, Circadian Rhythm Sleep – Wake Disorders. Parasomnias, Other Specified Sleep – Wake Disorders, Unspecified Sleep – Wake Disorders.

- **SEXUAL DYSFUNCTIONS:**

Normal human sexuality, Normal human sexuality and sexual dysfunctions, Homosexuality and Homosexual behaviour. Gender identity disorders.

- **GENDER DYSPHORIA:**

Gender Dysphoria, Other Specified Gender Dysphoria, Unspecified Gender Dysphoria.

- **SUBSTANCE- RELATED AND ADDICTIVE DISORDERS:**

Alcohol related disorders amphetamine (or Amphetamine like), Related disorders caffeine-related disorders and nicotine decoders, Cannabis – Related disorders, Cocaine related disorders, Hallucinogen related disorders, Inhalant related disorders, Opioid related disorders, Phencyclidine (or Phencyclidine like) related disorders, Sedative, Hypnotic or Anxiolytic related disorders.

- **PERSONALITY DISORDERS:**

- **PARAPHILIC DISORDERS:**

- **OTHER MENTAL DISORDERS:**

- **MEDICATION – INDUCED MOVEMENT DISORDERS AND OTHER ADVERSE EFFECTS OF MEDICATIONS:**

- **PSYCHIATRIC EMERGENCIES:**

Suicide. Other psychiatric emergencies .

- **OTHERS:**

Relational Problems. Malingering. Adults antisocial behaviour, criminality and violence. Borderline intellectual functioning and academic problems. Other additional conditions that may be a focus and clinical attention. Culture - bound syndromes

PAPER 3 (MDPS03)

PSYCHIATRY SUB-SPECIALITIES

- **CHILD PSYCHIATRY**

Introduction and overview, Normal child and adolescent development. Psychiatric Examination of Infant, Child and Adolescents. Genetics. Neuroimaging in psychiatric disorders of childhood.

NEURODEVELOPMENTAL DISORDERS:

Intellectual Disability, Global Developmental Delay, Unspecified Intellectual Disability, Communication Disorders: Language Disorder, Social (Pragmatic) Communication Disorder, Speech Sound Disorder, Stuttering, Autism Spectrum Disorder, Attention – Deficit / Hyperactivity Disorder. Learning disorders, Reading disorders, Mathematics disorders, disorders of written expression. Motor skills disorders: Developmental coordination disorders, Motor Disorders. Tic disorders, Other Specified Neurodevelopmental Disorders. Unspecified Neurodevelopmental Disorders.

FEEDING AND EATING DISORDERS:

Pica, Rumination Disorder, Avoidant / Restrictive Food Intake Disorder, Anorexia Nervosa, Bulimia Nervosa, Binge- Eating Disorder, Other Specified Feeding and Eating Disorders Unspecified Feeding and Eating Disorders.

ELIMINATION DISORDERS:

Enuresis, Encopresis Other Specified Elimination Disorders Unspecified Elimination Disorders.

DISRUPTIVE, IMPULSE-CONTROL AND CONDUCT DISORDERS:

Oppositional Defiant Disorder, Intermittent Explosive Disorder, Conduct Disorder, Anti Social Personality Disorder, Pyromania, Kleptomania, Other Specified Disruptive, Impulse-Control And Conduct Disorders Unspecified Disruptive, Impulse-Control And Conduct Disorders.

OTHER DISORDERS OF INFANCY, CHILD HOOD AND ADOLESCENCE:

Separation anxiety disorder and anxiety in children, selective mutism, reactive attachment disorder of infancy and early childhood, stereotypic movement disorder. Schizophrenia with childhood onset.

Disorder of infancy, childhood, and adolescence Not Otherwise Specified.

MOOD DISORDERS AND SUICIDE

CHILD PSYCHIATRY- PSYCHIATRIC TREATMENT:

Individual Psychotherapy, Group Psychotherapy, Paediatric Psychopharmacology, Family Therapy, Partial Hospitalization, Residential and Inpatient, Psychiatric Treatment of children and adolescents.

CHILD PSYCHIATRY- SPECIAL AREAS OF INTEREST:

Psychiatric aspects of day care, Physical Abuse, Sexual abuse and Neglect of child, Children's reaction to illness, Hospitalization and Surgery, Child or Adolescent antisocial behaviour, Identity problem and Borderline Disorders.

- **NEUROCOGNITIVE DISORDERS AND GERIATRIC PSYCHIATRY:**

Epidemiology of Psychiatry disorders, Genetics of Dementias, Normal Aging, Psychological aspects Sociocultural aspects, Physiological aspects, Central Nervous system changes, assessment psychiatric examination of the elderly patient, Neuropsychological evaluation, Psychiatric disorders of late life, Alzheimer's disease and other dementing disorders, Mood disorders, Schizophrenia and Delusional disorders, Anxiety disorders, Personality disorders, sleep disorders, drug and Alcohol Abuse, sensory Impaired, Psychiatric problems in the Medically Ill Elderly treatment Individual Psychotherapy, Family therapy, Group therapy, Psychopharmacology, treatment setting, Psychiatric aspects of Long-Term care, Community services for the elderly psychiatric patient, other Geriatric areas, Medical – Legal issues, Elder abuse ,Neglect.

- **HOSPITAL AND COMMUNITY PSYCHIATRY:**

Community Psychiatry, Psychiatric Rehabilitation.

- **PSYCHIATRIC EDUCATION :**

Graduate Psychiatric Education

- **FORENSIC PSYCHIATRY:**

Legal Issues in Psychiatry, Ethics in Psychiatry, Correctional Psychiatry.

- **Health issues in LGBT population.**

- **OTHERS:**

Human Rights of Psychiatric Patients. Psychiatry: Past and Future. History of Psychiatry, Future of Psychiatry, Psychiatric care of victim of sexual abuse. Mental health issues in LGBT population.

PAPER 4 (MDPS04)

RECENT ADVANCES IN PSYCHIATRY AND RELATED NEUROLOGY AND MEDICINE

- **RECENT ADVANCES IN PSYCHIATRY.**

- **NEUROPSYCHIATRY AND BEHAVIOURAL NEUROLOGY:**

The Neuropsychiatric approach to the patient. Neuropsychiatric aspects of cerebrovascular disorders. Neuropsychiatric aspects of brain tumors. Neuropsychiatric aspects of Epilepsy. Neuropsychiatric consequences of traumatic brain injury. Neuropsychiatric aspects of movement disorders. Neuropsychiatric aspects of multiple sclerosis and other demyelinating disorders.

Neuropsychiatric aspects of HIV infection and AIDS. Neuropsychiatric aspects of other infection diseases (Non HIV). Neuropsychiatric aspects of Prion disease. Neuropsychiatric aspects of headache. Neuropsychiatric aspects of neuromuscular disease. Psychiatric aspects of child neurology. Neuropsychiatry of Neurometabolic and Neuroendocrine disorders.

- **CONSULTATION LIASON PSYCHIATRY .**

- **PSYCHOSOMATIC MEDICINE:**

History and currents trends. Cardiovascular disorders. Gastrointestinal disorders. Obesity. Respiratory disorders. Diabetes: Psychological issues and Psychiatric disorders. Endocrine and Metabolic disorders. Psycho-Oncology. End-of-life and palliative care. Death, dying and Bereavement .Stress and Psychiatry. Psychocutaneous disorders. Organ transplantation. Psychiatric care of the burned patient.

- Recent advancement in the management of depression and role of Ketamine & rTMS
- Mental health care act.
- Internet gaming disorders.
- Attenuated psychosis.

EVALUTION TECHNIQUES AND TOOLS TO BE USED AND THEIR FREQUENCY:

Every resident must have satisfactory performance in PGET (Post Graduate Evaluation Test) held every six months in their respective syllabi including last PGET covering whole syllabus (both theory and practical).

EXAMINATIONS PREREQUISITE

As per MCI guidelines

EXAMINATION

1. Theory examination

The residents are examined in four written papers of 3 – hours each as follows :

Paper I – Basic sciences as related to psychiatry	(MM - 100)
Paper II – Clinical psychiatry	(MM - 100)
Paper III – psychiatry sub – specialities	(MM - 100)
Paper IV – Recent Advances in Psychiatry and related Neurology and Medicine	(MM - 100)

2. Practical/Clinical Examination (MM - 400)

The clinical examination consists of following activities

- (a). Case presentation's
(one long + 2 short cases)
Including neurology
- (b). Spots : Consisting of EEG, Neuroimaging and psychological tests instruments
drugs etc.
- (c). Grand Viva

Books Recommended:

- Comprehensive text book of Psychiatry
- Oxford text book of Psychiatry
- Introduction to Psychology by Morgon and King
- Rutter's Child and Adolescent Psychiatry
- Stahl's Essential Psychopharmacology
- Text Book of Forensic Psychiatry by Robert I. Simon and Liza H. Gold
- Research Methodology by C. R. Kothari
- Statistics by Henny E. Garrett and S.K. Mangal

Approved and revised by the Board of Studies, Department of Psychiatry in its
ordinary meeting held on 28.02.2018