

MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH & STUDIES
(Deemed to be University under section 3 of the UGC Act 1956)

Ph.D ADMISSION TEST (MR-PAT)

Ph.D. in Applied Psychology

Module 1: Foundations of Psychology

- 1.1 Historical development and schools of psychology
- 1.2 Biological bases of behavior (neuroanatomy, neurotransmitters)
- 1.3 Sensation, perception, and attention
- 1.4 Learning theories: Classical, Operant, Observational
- 1.5 Motivation and emotion: biological, psychological, and social theories

Module 2: Cognitive and Affective Processes

- 2.1 Models of memory and forgetting
- 2.2 Problem-solving, reasoning, and decision-making
- 2.3 Intelligence: theories, measurement, and applications
- 2.4 Emotions: theories and emotional regulation
- 2.5 Language development and cognitive processes

Module 3: Developmental Psychology

- 3.1 Principles of development and lifespan approach
- 3.2 Theories of cognitive development (Piaget, Vygotsky)
- 3.3 Social and emotional development (Erikson, Bowlby)
- 3.4 Moral development (Kohlberg, Gilligan)
- 3.5 Development in adolescence and old age

Module 4: Social and Cultural Psychology

- 4.1 Attitudes: formation, change, and measurement
- 4.2 Social influence: conformity, compliance, obedience
- 4.3 Interpersonal attraction, prosocial and aggressive behavior
- 4.4 Group dynamics, leadership, and decision-making
- 4.5 Culture and psychology: norms, values, and cross-cultural issues

Module 5: Personality and Individual Differences

- 5.1 Trait theories: Allport, Eysenck, Big Five
- 5.2 Psychodynamic and humanistic theories
- 5.3 Cognitive-behavioral perspectives on personality
- 5.4 Assessment: projective and psychometric tools
- 5.5 Self-concept, identity, emotional intelligence, and creativity

Module 6: Psychopathology and Mental Health

- 6.1 Classification systems: DSM-5, ICD-11
- 6.2 Etiology and symptoms of major psychological disorders
- 6.3 Anxiety, mood, personality, and psychotic disorders
- 6.4 Evidence-based psychotherapies: CBT, DBT, psychodynamic, humanistic
- 6.5 Health psychology and positive mental health

Module 7: Psychological Assessment and Statistics

- 7.1 Basics of test construction: reliability, validity, norms
- 7.2 Types of psychological tests: intelligence, personality, aptitude

- 7.3 Descriptive statistics: mean, median, SD
- 7.4 Inferential statistics: t-test, ANOVA, chi-square, correlation
- 7.5 Introduction to statistical software (SPSS/R)

Module 8: Research Methodology and Ethics

- 8.1 Types of research: qualitative, quantitative, mixed-methods
- 8.2 Research problem, objectives, and hypothesis formulation
- 8.3 Sampling methods and research variables
- 8.4 Research designs: experimental, survey, correlational, longitudinal
- 8.5 Ethical issues in research, plagiarism, APA referencing style

Suggested readings:

1. S.K. Mangal (2015). *General Psychology*. Sterling Publishers.
2. Passer, M. W., & Smith, R. E. (2018). *Psychology: The Science of Mind and Behaviour* (8th ed.). McGraw-Hill Education.
3. Matlin, M. W. (2012). *Cognition* (8th ed.). Wiley.
4. M. R. Murthy (2001). *Cognitive Psychology*. S. Chand Publishing.
5. Hurlock, E. B. (2005). *Developmental Psychology*. McGraw-Hill Education (Indian Reprint).
6. S.K. Mangal (2019). *Advanced Educational Psychology*. PHI Learning Pvt. Ltd.
7. Baron, R. A., Branscombe, N. R., & Byrne, D. (2021). *Social Psychology* (15th ed.). Pearson.
8. Misra, G. (Ed.) (2010). *Psychology in India: Volume 1–Social and Organizational Processes*. ICSSR/SAGE.
9. Pervin, L. A., & Cervone, D. (2019). *Personality: Theory and Research* (14th ed.). Wiley.
10. N. K. Chadha (2018). *Applied Psychometry*. Sage India.