

UNIVERSITY OF MYSORE
Syllabus for Ph.D. Entrance Exam
PSYCHOLOGY

Unit 1: Cognitive Psychology and Cognitive Science

Introduction to cognitive Psychology and Cognitive Science; Cognition and Brain: Basic Principles; Behavioral, Electrophysiological, and Neuroimaging methods; Attention and consciousness; Memory: Visual Memory, STM and Working memory, and Long term Memory; Language, Brain and Cognition; Speech Recognition; Language Development; Reading development; Reading process; Reasoning and Decision making; Gene-Brain-Behavior Link.

Unit 2. Psychological Testing Clinical Assessment and Clinical Assessment

Functions, origins, and application of psychological testing; Item development and item validation; Development of norms and the meaning of test scores; Reliability and Validity of tests; Types of tests. Principles and methods of clinical assessment; Assessment of cognitive functions; Assessment of personality; Assessment of deviance and pathology.

Unit 3: Biological basis of behavior

Neurons; Nerve impulse propagation; Structure and functions of Nervous system; Diversity of life; Structure of genes; Protein synthesis; Cell division; Mendel and post Mendellian developments; Evolution; Behavior genetics – Introduction and Methods.

Unit 4. Research Methodology & Statistics

Variables; Hypothesis; Measurement and scales; General Principles of Research; Types of Research Designs; Sampling methods; Analyzing and reporting results; Quantitative methods; Analyzing and reporting results - Qualitative methods; computer and its use in data analysis

Probability; Binomial and Normal Distribution and Hypothesis Testing; Correlation and Regression; ANOVA, MANOVA and other Multivariate Statistics; Nonparametric Statistics.

Unit 5. Learning Theories

Functionalistic Theories (Thrdike, Skiiner, and Hull); Associationistic Theories (Pavlov, Guthrie, and Estes); Cognitive Theories (Gestalt, Piaget, Tolman, and Bandura); Biological Theories (Hebb, and Bolles).

Unit 6. Personality

Psychodynamic perspective (Freud, Jung, Edler, Horney, Erikson); Humanistic and Existential perspective (Erich Fromm, Carl Rogers, Maslow); Cognitive perspective (George Kelly, Rotter, Bandura); and Eastern perspective (Indian).

Unit 7. Child and Adult Psychopathology

Attention Deficit Disorder; Oppositional Defiant and Conduct Disorder-causes and management; Childhood Anxiety and Depression Disorders; Enuresis, Encopresis, Sleep walking-Causes and Management; Learning Disability; Autism-causes and management; Mental Retardation-Types, Classifications-causes, prevention and Management

Theories and Models of Anxiety Disorders; Theories and Models of: Somatization, Somatoform and Dissociative disorders; Theories and Models of: Mood, Schizophrenia, and Delusional disorders; Models of personality disorder (Psychodynamic, Behavioral, Cognitive and Biological models).

Unit 8. Psychotherapy and Counseling

Psychoanalytic Technique; Techniques based on Counter Conditioning; Techniques based on Operant conditioning; Techniques based on Cognitive Behavioral Approaches: Beck, Ellis. Person-centred and Gestalt therapies; Family and marital therapies; Transpersonal approach; Body-centred therapy, Yoga and Holistic approach.

Individual counseling – approaches and techniques; Group counseling – approaches and techniques; Counseling for career planning and decision making, Life skills and counseling.

Unit 9. Organizational Behavior and Organizational Development Introduction to Organizational Behavior; Leadership and Teams at work; Motivation in Organization; Communication and Decision Making.

Overview of organization Development; The Process of Organization Development - Diagnosing the problems; Designing Interventions and Leading and Managing Change.

Unit 10. Organizational Psychology and Human Resource Development

The field of organizational behavior (history, subject matter, and scope); Leadership and Teams at work; Motivation in Organization; Communication and Decision Making; Training and development; Need Assessment, Training Design & Implementation; Evaluating the training Effectiveness; Performance Appraisal; HR Planning and recruitment; Future challenges: Indian & Global.

List of Books for reading:

1. *Cognitive Psychology: Applying the science of mind 2nd Edition*- Bridget Robinson-Riegler & Greg L. Robinson-Riegler. Pearson Education, New Delhi, 2008
2. *Cognitive Psychology: A Student's Handbook, 6th Edition* - Michael W. Eysenck, and Mark T. Keane. Taylor and Francis Inc., New York, 2005.
3. *Cognitive Psychology: Connecting mind, research, and everyday experience (2nd edition)*. - Goldstein, E. B. Thomson/Wadsworth., 2008.
4. *Research design and methods – A process approach*. 5th Edition. Kenneth S. Bordes & Bruce - New York: Tata-McGraw Hill, 2002.
5. *Rethinking methods in Psychology*. Jonathan A. Smith, Rom Harré & Luk Van Langenhove. New Delhi: Sage Publications, 1995.
6. *Statistics for Psychology* – Arthur Aron, Elaine Aron, Elliot J. Coups. 4th Edition – New Delhi: Pearson Education, 2007
7. *Psychological Testing* – Anne Anastasi and Susana Urbana, New Delhi: Pearson Education. 7th edition,
8. *Psychological Testing- Principles, Applications and Issues* – Robert M. Kaplan & Dennis P. Saccuzzo. New Delhi: Cengage Learning India Pvt. Ltd. 2009. 6th Edition.

9. *Introduction To Theories Of Learning* . Hergenhahn - New Delhi: Pearson Education 2008
10. *Personality and personal growth*. Robert Frager & James Fadiman. New Delhi: Pearson Education. 2007. 6th edition.
11. *Organization Development and Change*, Cummings & Worley, 2006, Seventh Edition, Thompson Asia
12. Ramnarayan, Rao, T V, & Kuldeep Singh (1998) *Organization Development, Interventions & Strategies* (edited), Sage Publications
13. *Organization Behavior* 2nd Ed. Steven L. Mc Shane & Mary Ann Von Glinow. Mc-Graw Hill (College Package Edition), 1999.
14. *Behavior in Organization Psychology* 9th Ed. Jerald Greenberg & Robert Baron
15. *Organizational Behavior* 10th Ed. Stephen P Robbins. New Delhi: Prentice Hall India, 2007.
16. *Abnormal Psychology and Modern life*. C. R. Carson & N. J. Butcher 2007. Harper & Collins.
17. *Abnormal Psychology*. R. G. Meyer (1990). Allyn & Bacon. Inc.
18. *Model for Clinical Psychopathology*. C. Eisdorfer et al. MTP Press Ltd.
19. *Clinical Psychology: The Study of Personality and Behavior*. Edward Arnold
20. *Handbook of Psychological Assessment* - Groth Marnath. John Wiley & Sons, New York., 2nd edition
21. *Genetics* – Monroe W. Strickberger, New Delhi: Prentice Hall India, 2004. 3rd Edition
22. *Counseling and Psychotherapy- Theories and interventions*. 4th Edition. D. Capuzzi & D. R. Gross. New Delhi: Pearson Education, 2008.
23. *Introduction to Counseling and Guidance*. 6th Edition Robert L. Gibson & Marianne H. Mitchell. New Delhi: Pearson Education, 2006.
24. *Counseling and Psychotherapy- Theories and interventions*. 4th Edition. D. Capuzzi & D. R. Gross: New Delhi: Pearson Education, 2008.
25. *Human Resource and Personal Management*. K. Ashwathappa. New Delhi: Tata McGraw Hill.
26. *Personnel Management*. C. B. Mamoria & S. V. Gankar. New Delhi: Himalaya Publishing Co. 2004.
27. *Organization Behavior* . Steven L. Mc Shane & Mary Ann Von Glinow. Mc-Graw Hill 1999.
28. *Behavior in Organization Psychology* 9th Ed. Jerald Greenberg & Robert Baron
29. *Organizational Behavior* 10th Ed. Stephen P Robbins. New Delhi: Prentice Hall India, 2007.
30. *Management of Organizational Behavior (Utilizing Human Resources)* 7th Ed. Paul Hersey, Kenneth H Blanchard & Dewey E Johnson.