

B.A. I (Semester I)

PSY 101: Basic Psychological Processes

UNIT I: Introduction

- Psychology as a science.
- Perspectives- Development of Psychology.
- Methods: Experimental, Observation, Questionnaire and Interview.
- Biological Bases of Behavior: Genes, Glands and Hormones.

UNIT-II: Cognitive Processes

- Sensory Processes and its importance.
- Attention Processes: Selective and Sustained Attention, Vigilance.
- Cognitive and Perceptual Processes: Perception, Perceptual Organization, Perceptual Constancy.
- Memory: Memory Processes, Encoding, Storage and Retrieval Processes, Structural model (Atkinson and Shiffrin), Stage and process model (Craik and Lockhart).

UNIT III: Learning and Thinking

- Learning: Principles, Basic processes of Classical Conditioning, Operant Conditioning and Observational Learning.
- Verbal Learning: Concept and Methods of Verbal Learning (Free Recall, Serial Learning and Paired Associate Learning).
- Thinking: Process, Elements Cognitive Map, and Concepts .
- Types of thinking: Inductive and Deductive Reasoning, Creative Thinking.

UNIT IV: Motivation and Emotion

- Motivation Related Concepts (Need, Drive, and Incentive), Motivational Cycle.
- Classification of Motives.
- Emotion: Physiological changes and processes.
- Theories of Emotion: Classical (James Lange and Cannon Bard), Modern (Schachter and Singer).

Books Recommended

1. Baron, R.A. (1995). Psychology: The essential science. New York: Allyn & Bacon.
2. Bernstein, D. A., Roy, E. J., Snull, T. K., Wicknes, D. C. (1991). Psychology. Houghton Mifflin Co.
3. Hilgard, E. R. and Atkinson, R. (1976). Introduction to Psychology. Harcourt Bracor and World Inc.
4. Lefton, L.A. (1985). Psychology. Boston: Allyn & Bacon.
5. Morgan, C.T. (1961). An Introduction to Psychology. New Delhi:Tata McGraw and Hill.
6. Morgan, C.T., King, R.A. Weisz, J.R., Schopler, J. (2001). Introduction to Psychology, Tata McGraw and Hill.
7. McGuigan. (1990), Experimental Psychology (Indian edition). Prentice Hall of India Pvt. Ltd.
8. Singh, A.K. (2000). Uchhtar Samanya Manovigyan New Delhi: Motilal Banarsidas.
9. Snodgrass, J. A. Berger, G. L. and Maydon, M.(1985) Human Experimental Psychology, Oxford University Press
10. Spear, P.D; Peniod, S.O. & Bakes. T.B. (1998) Psychology Perspectives on Behavior. John Wiley and Sons.
11. Zimbardo, P. G. & Weber, A.L. (1997) Psychology. New York: Harper Collins College Publishers.

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PSY 102: Statistics and Psychophysics

UNIT I: Statistics and Measurement

- Introduction to Statistics and Measurement: Descriptive and Inferential Statistics, Parametric Methods and Levels of Measurement (Nominal, Ordinal, Interval and Ratio).
- Frequency Distribution: Graphical Representation of Data (Histogram, Bar - Diagram, Frequency Polygon).
- Measures of Central Tendency: Mean, Median and Mode.
- Measures of Variability: Range, Quartile Deviation, Average Deviation, Standard Deviation.

UNIT II: Correlation and Significance testing

- Normal Distribution and Concept of Probability, Skewness and Kurtosis.
- Correlation: Concept, Linear Correlation, Pearson's Product Moment Correlation (r) Spearman's Rank Order Correlation (Rho).
- Inference and Prediction: Standard Error of Mean and Median.
- Significance of Difference between Means in Independent and Correlated Samples

UNIT III: Psychophysics: Concept and methods

- Concept and Problem of Psychophysics, Physical vs Psychological continuum.
- Threshold: AL, DL, TL.
- Method of Average Error.
- Method of Limits.

UNIT IV: Methods and Application of Psychophysics

- Method of Constant Stimuli.
- Rank Order Method.
- Paired Comparisons.
- Application of Psychophysics.

Books Recommended

- Garret, H. C. (1981). Statistics in Psychology and Education. New York: Longmans, Green & Co.
- Garret, H. C. (2003). Manovigyan aur Shiksha mein Sankhyaki. New Delhi: Motilal Banarasi Das.
- Guilford, J.P. (1984) Psychometric Methods, Tata McGraw Hill.
- Snodgrass, J. G. (1985) Human Experimental Psychology. Oxford University Press.
- Woodworth, R.S. and Scholesberg, H. (1971). Experimental Psychology. USA: Holt, Rinehart and Winston Inc.
- Upadhyay, S. and Bhargava, U. (2010). Manobhautikiya Vidhiya. Varanasi: US Publishers